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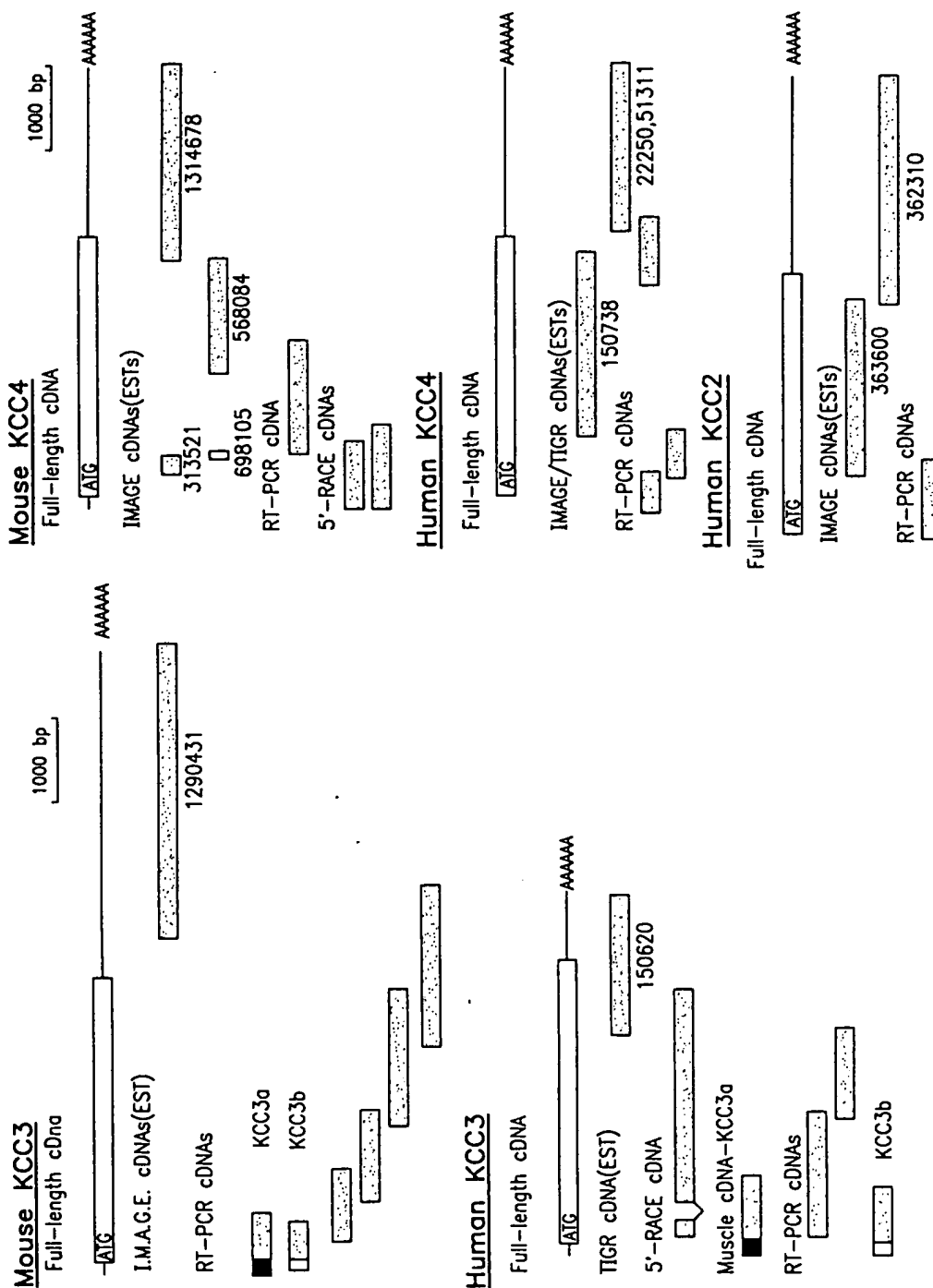


FIG. 1

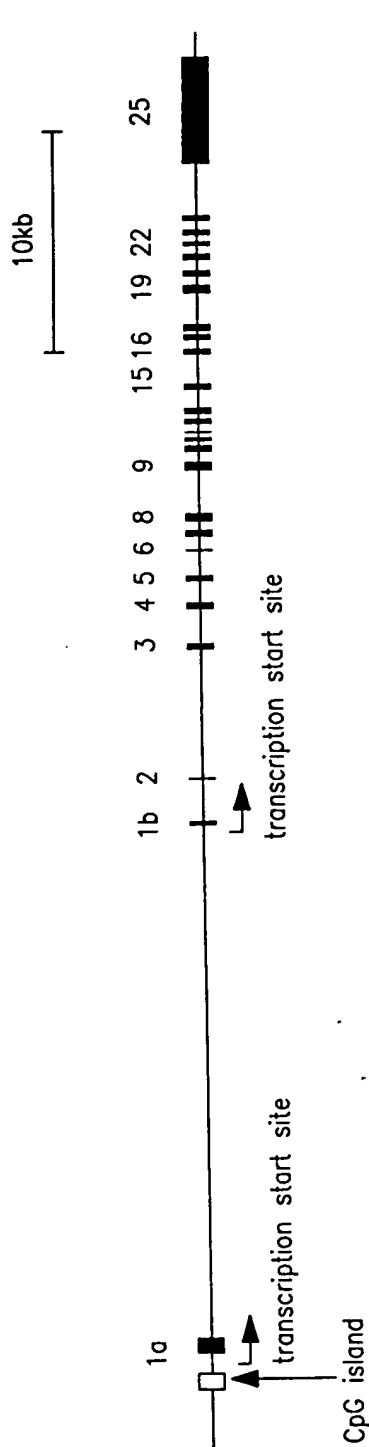


FIG. 2A

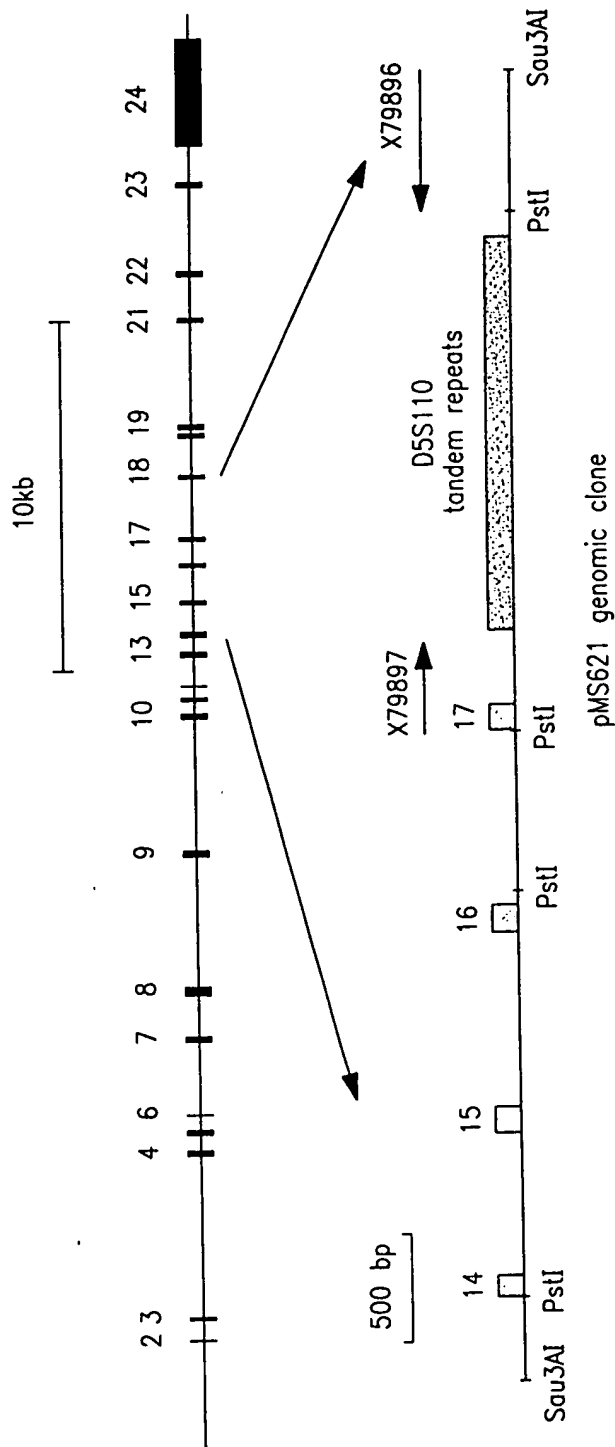


FIG. 2B

2040E0" 9265E860

mouse genomic clone

sequenced



1 kb

exon 1

TCCAGAA	ACCGT	GGACAGCGCC
TT CAGC	ACCA	CGGACAGMGSC

KCC2 sequence
Consensus NRSE

** * * * *

5' UTR
M L N ...ccg/gtaagc
5' splice junction

Translation
Start
Site

XhoI

5' end
of cDNA

FIG. 3

20 bp

COPY

COPY

probe dilution 1:1 1:4 1:20 1:100
 nuclear proteins - + - + - + - +

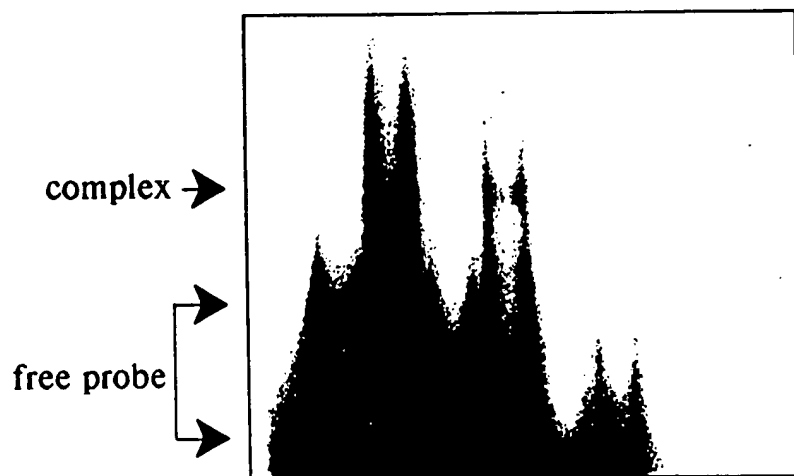


FIG. 4A

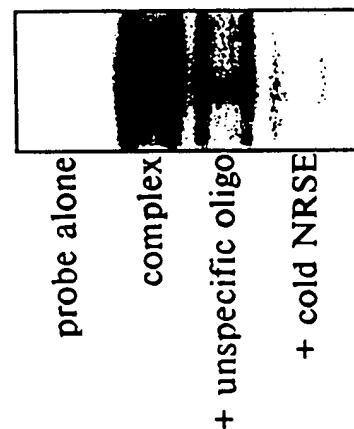


FIG. 4B

COPY

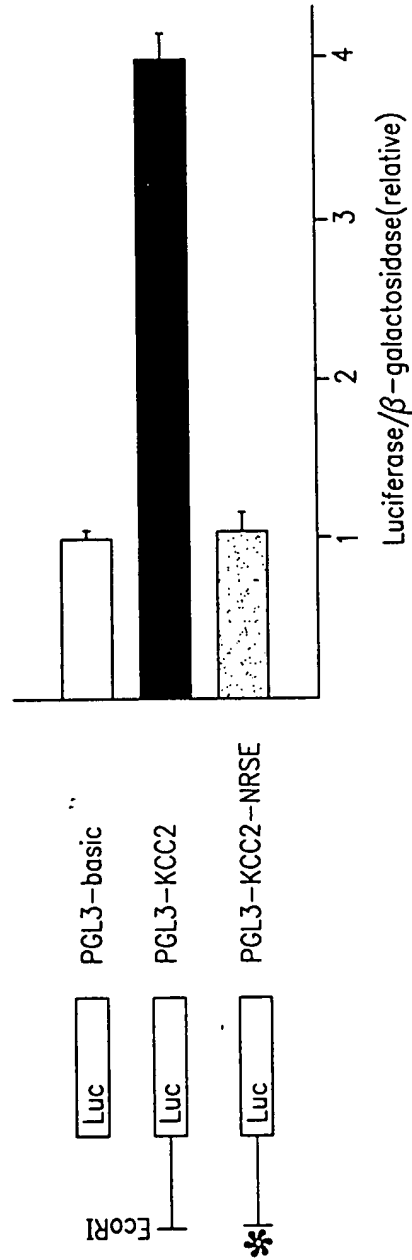


FIG. 5

2040E0" 9465E860

COPY

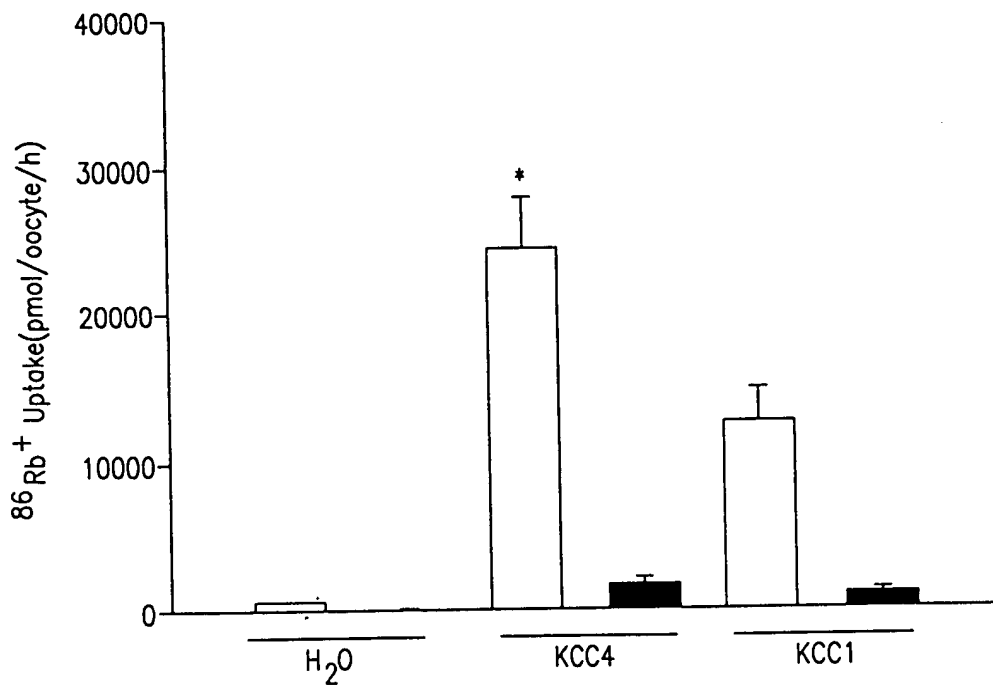
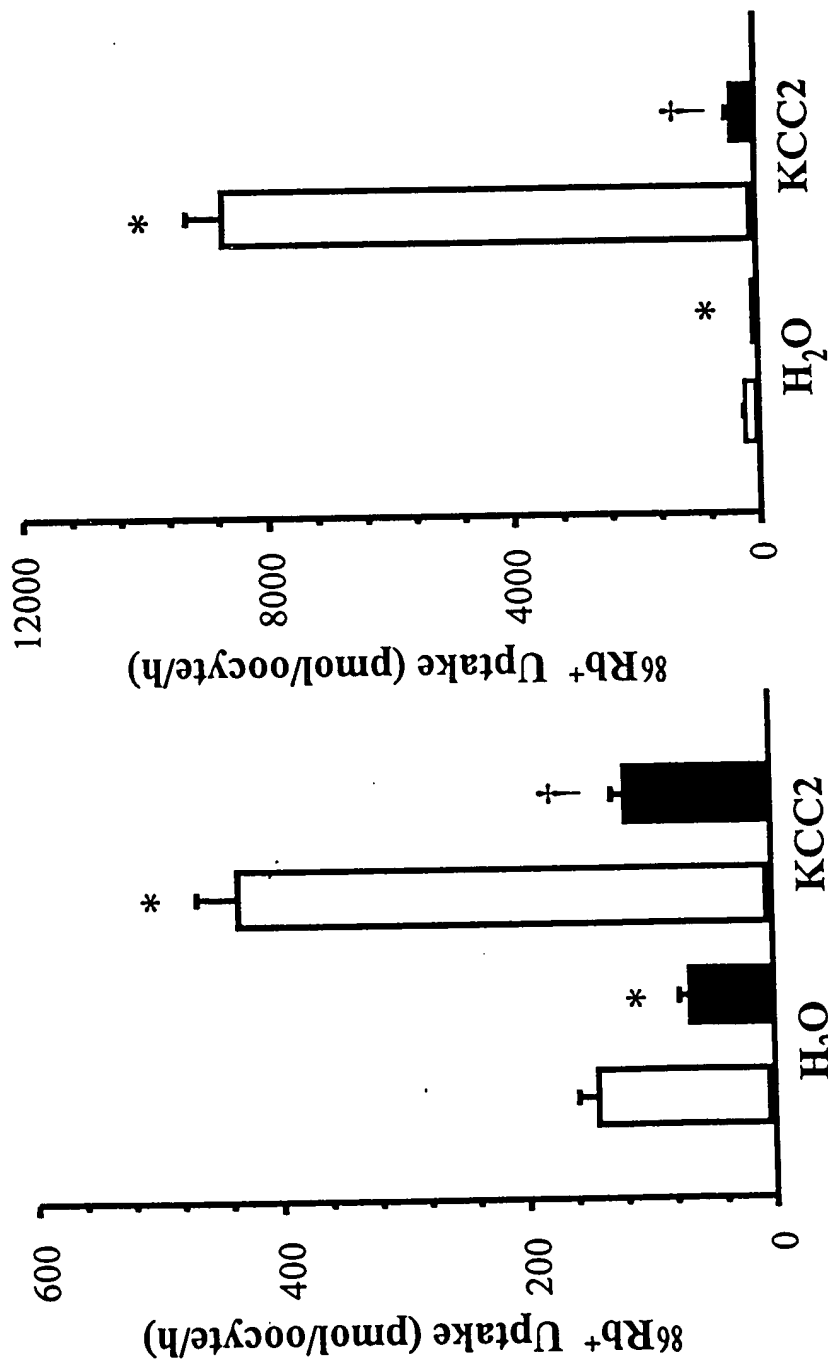


FIG. 6

COPY



204010 " 94653860

204000" 9465E860

COPY

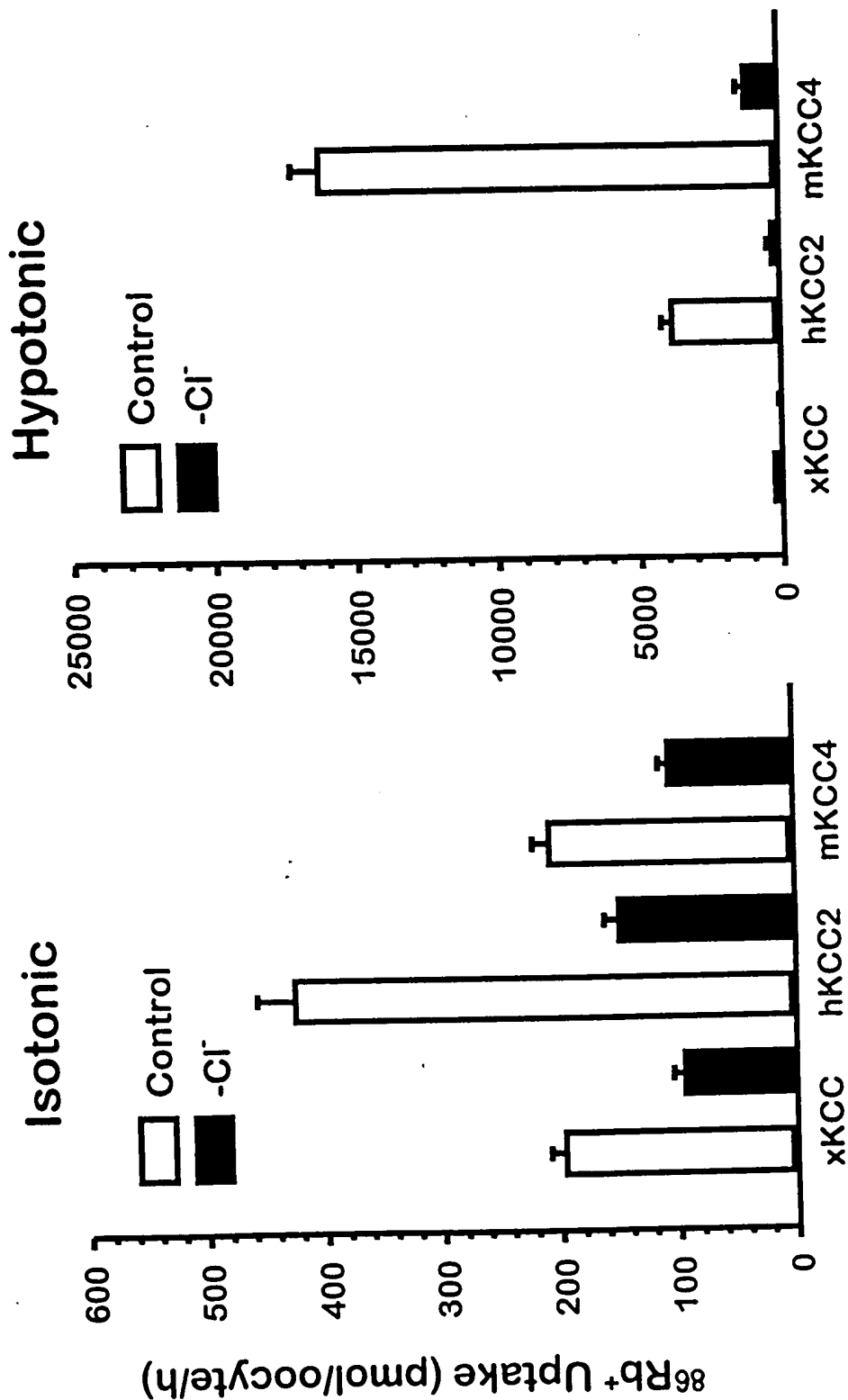


FIG. 8

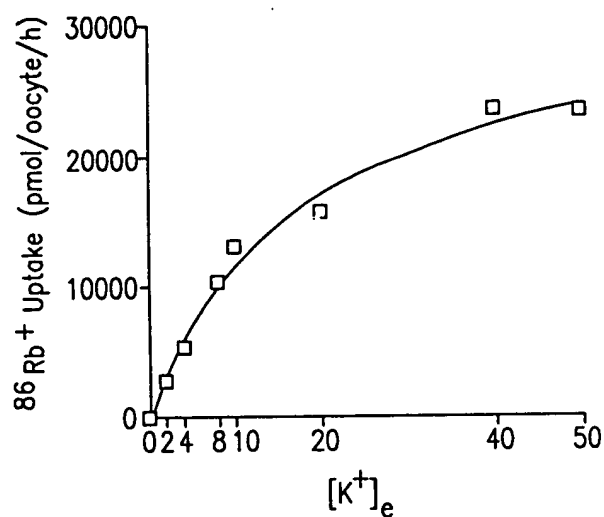


FIG. 9A

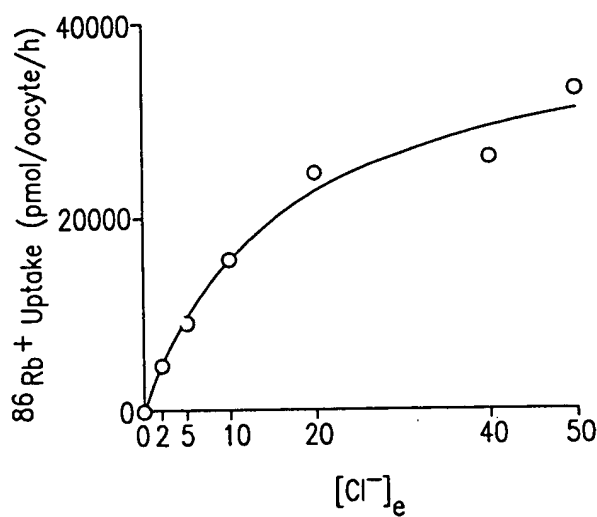


FIG. 9B

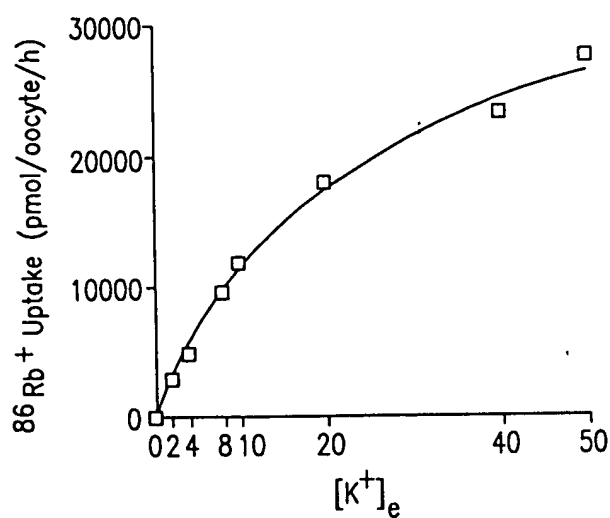


FIG. 9C

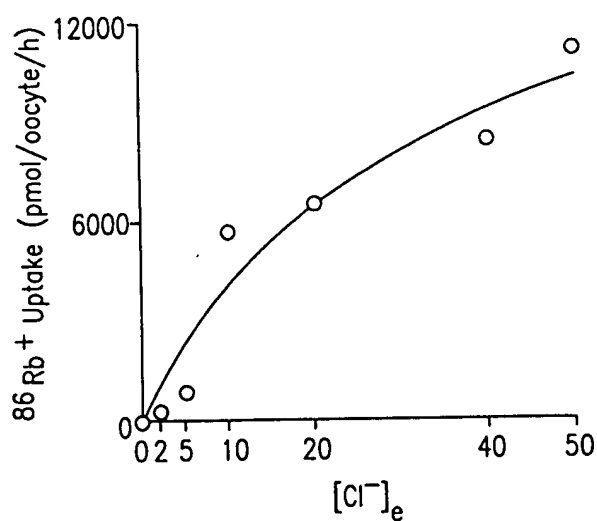


FIG. 9D

20140101 14:55:50

COPY

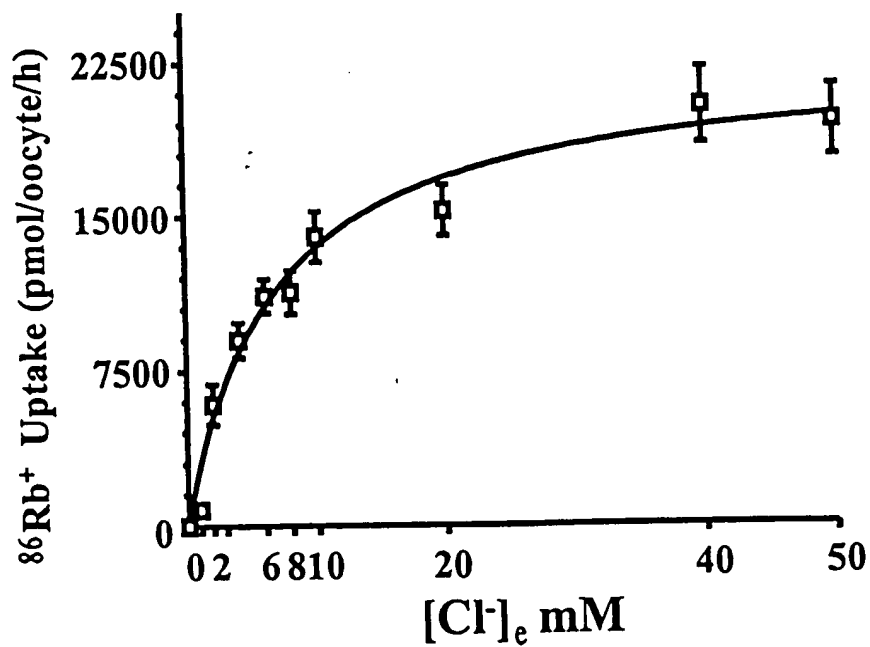
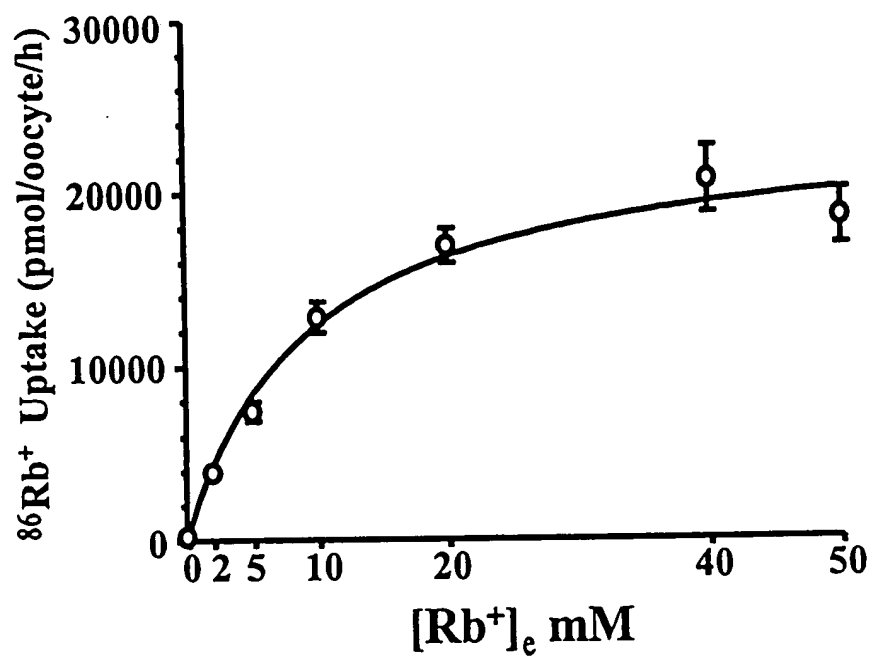


FIG. 10

COPY

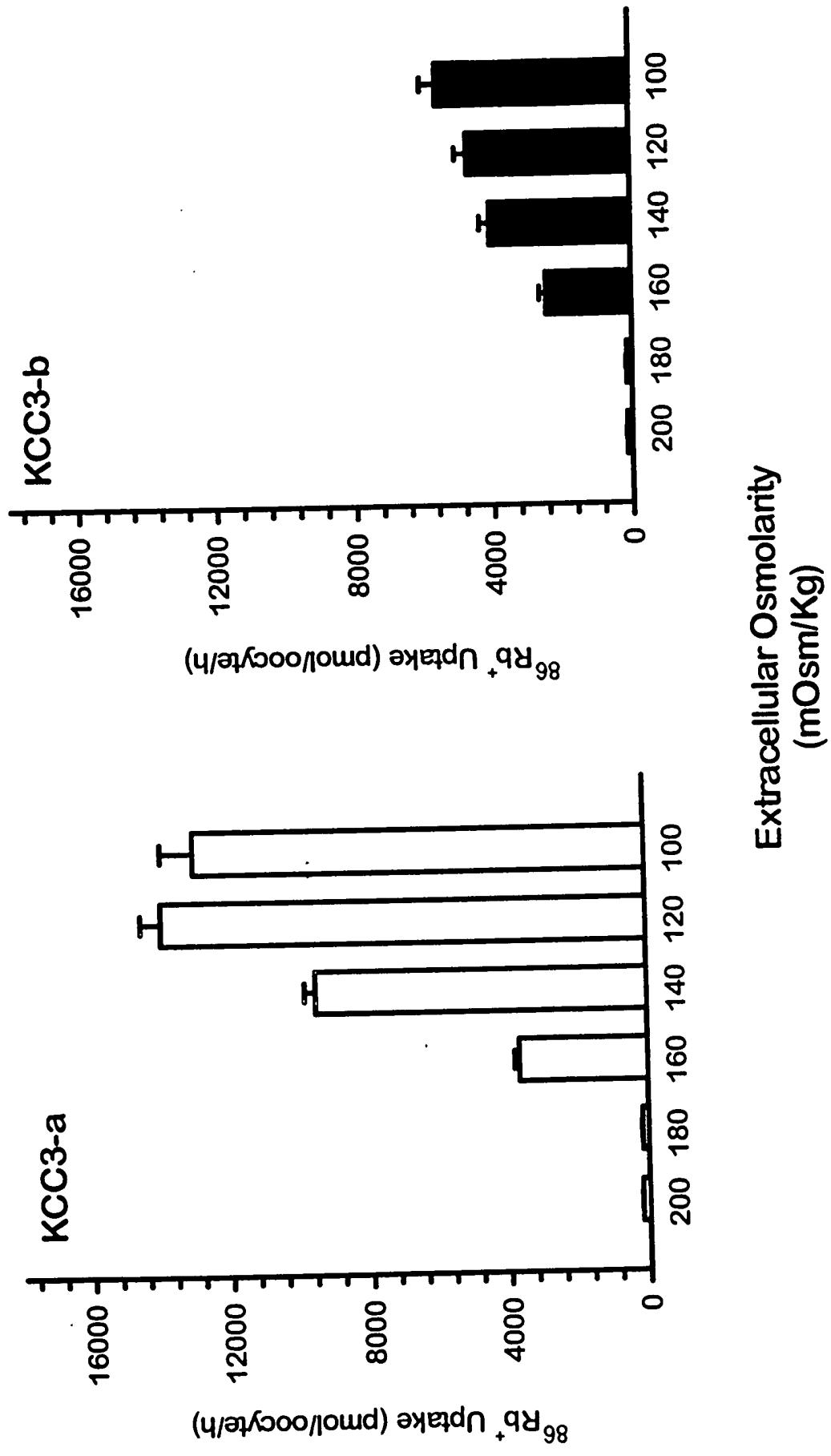


FIG. 11

2040E0" 9265E860

COPY

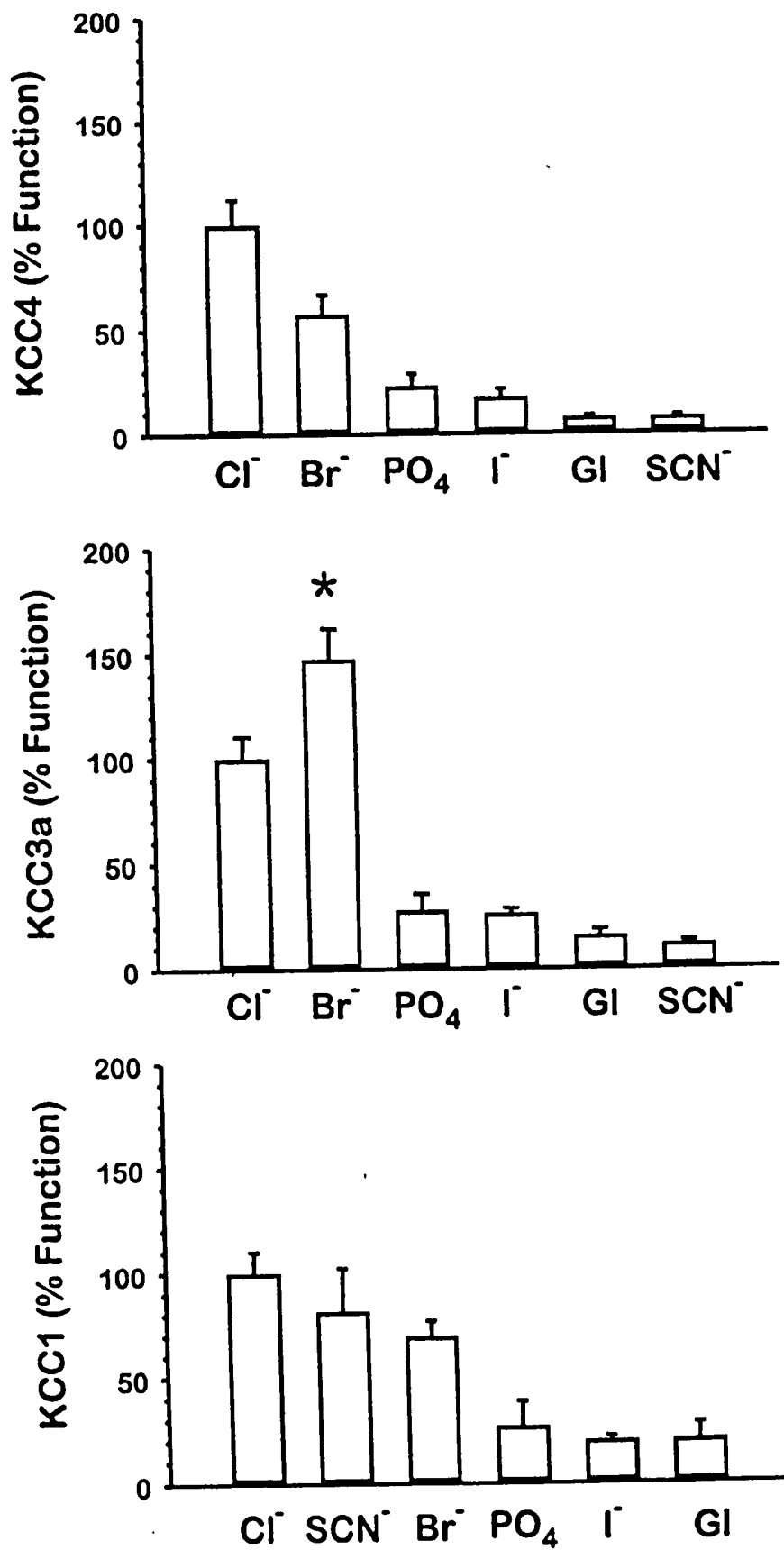


FIG. 12

2040E0-9465E860

COPY

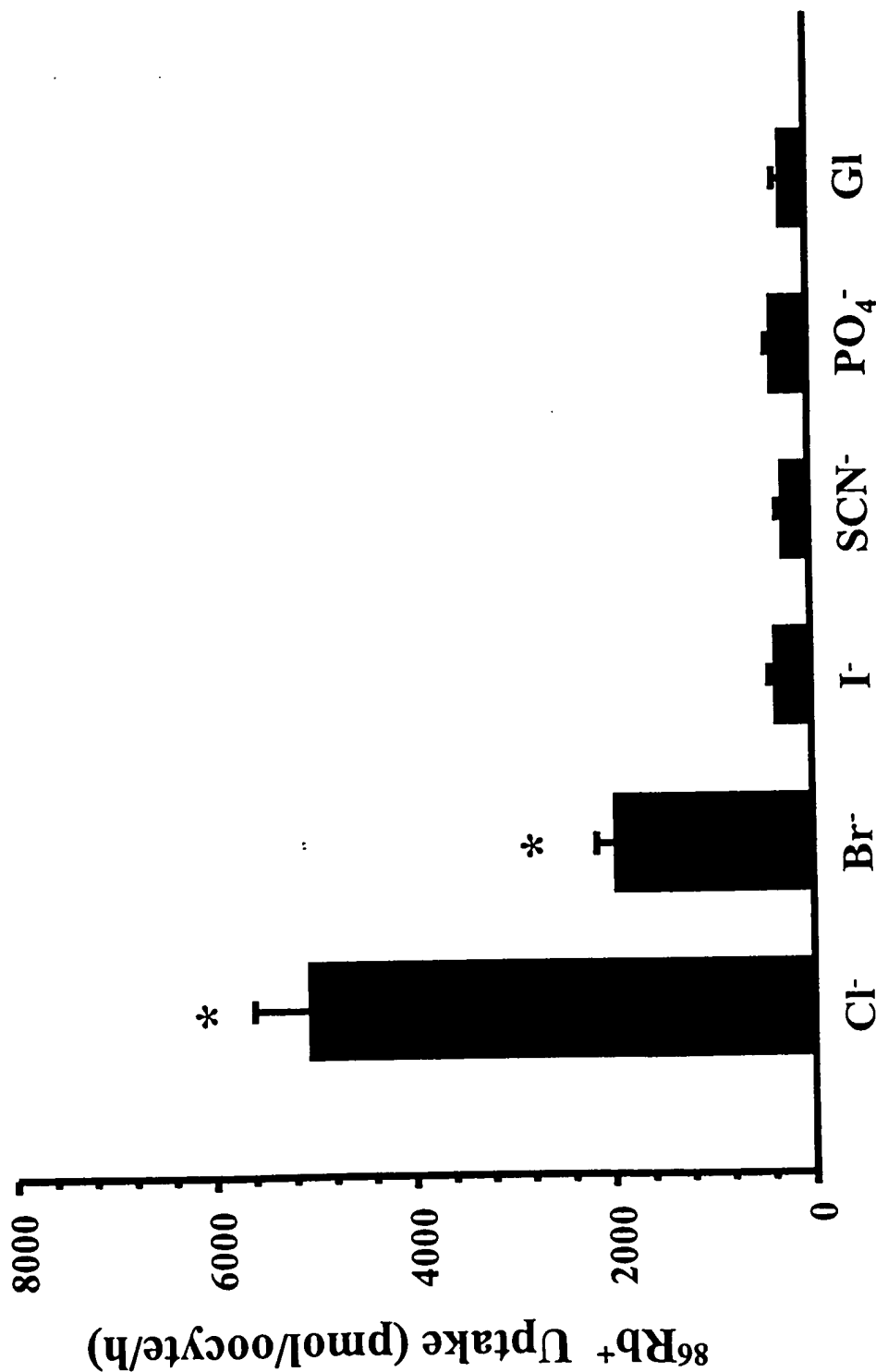


FIG. 13

2040E0" 9/26/98B60

COPY

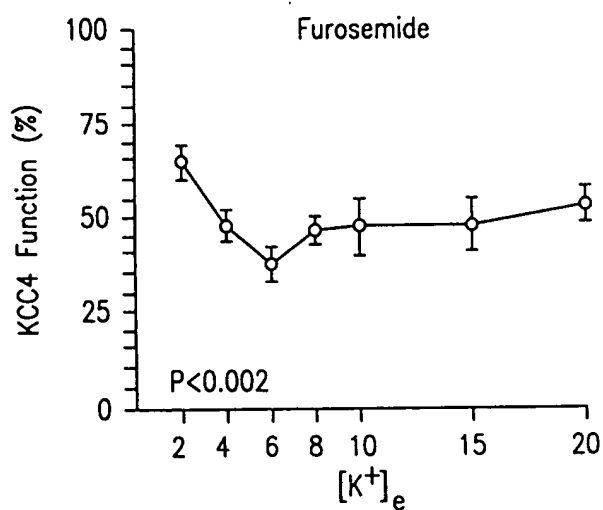


FIG. 14A

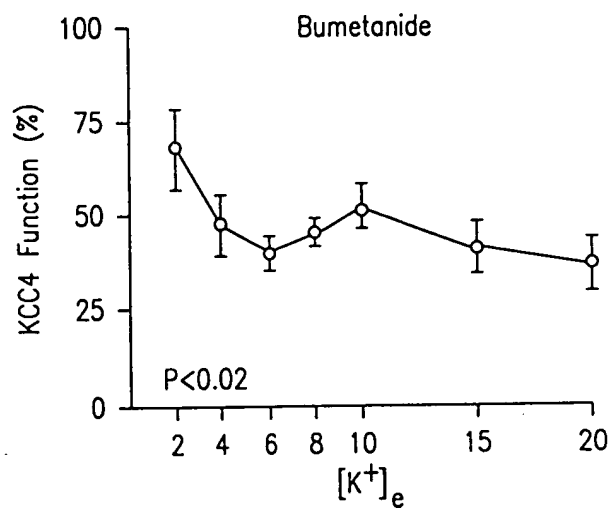


FIG. 14B

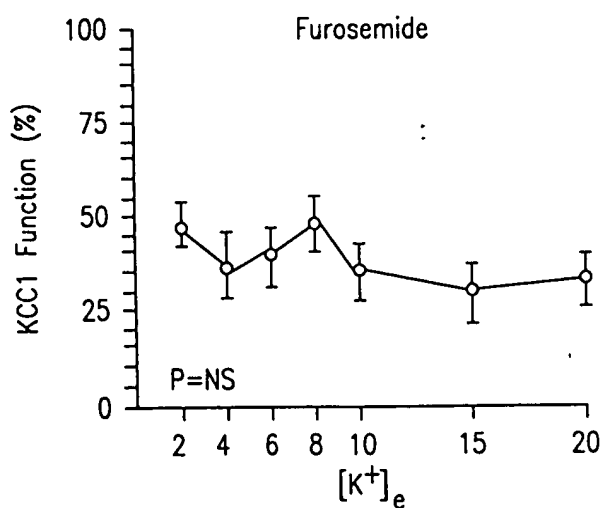


FIG. 14C

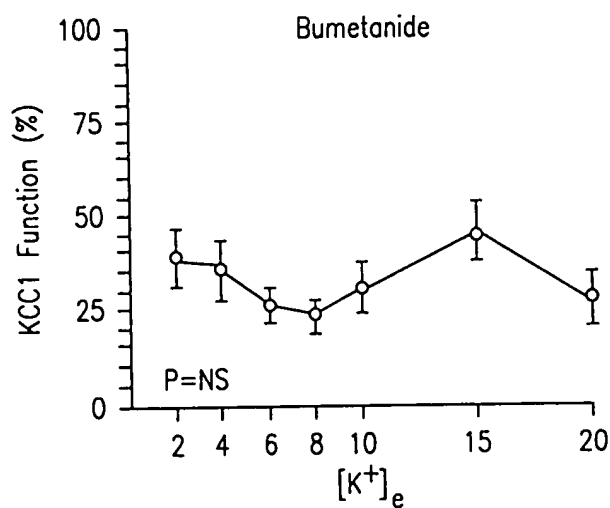


FIG. 14D

20140101-92658660

COPY

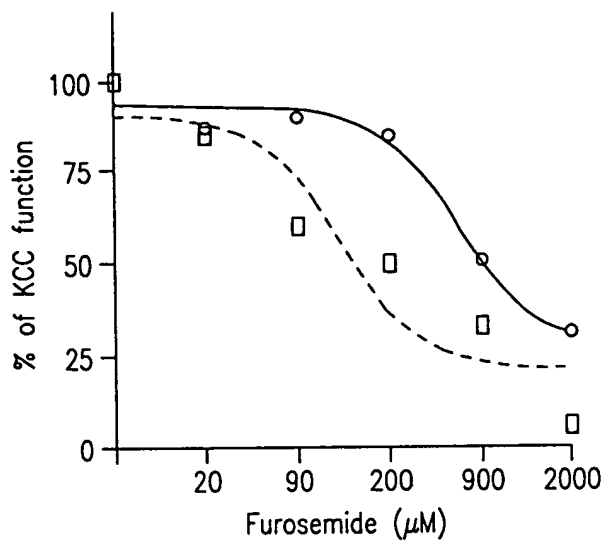


FIG. 15A

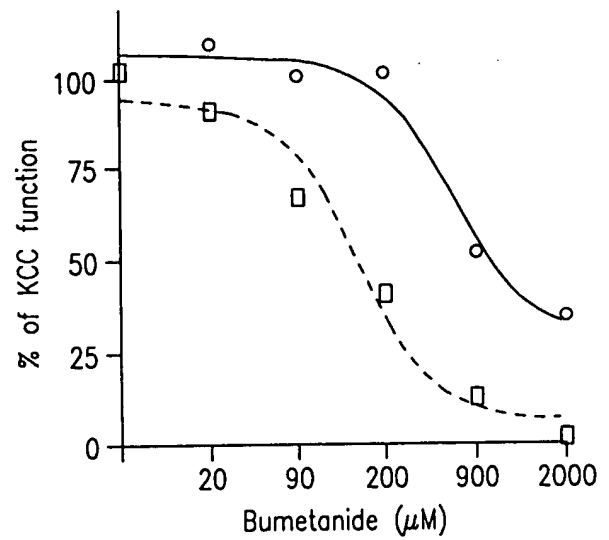


FIG. 15B

COPY

2040E0' 3165E860

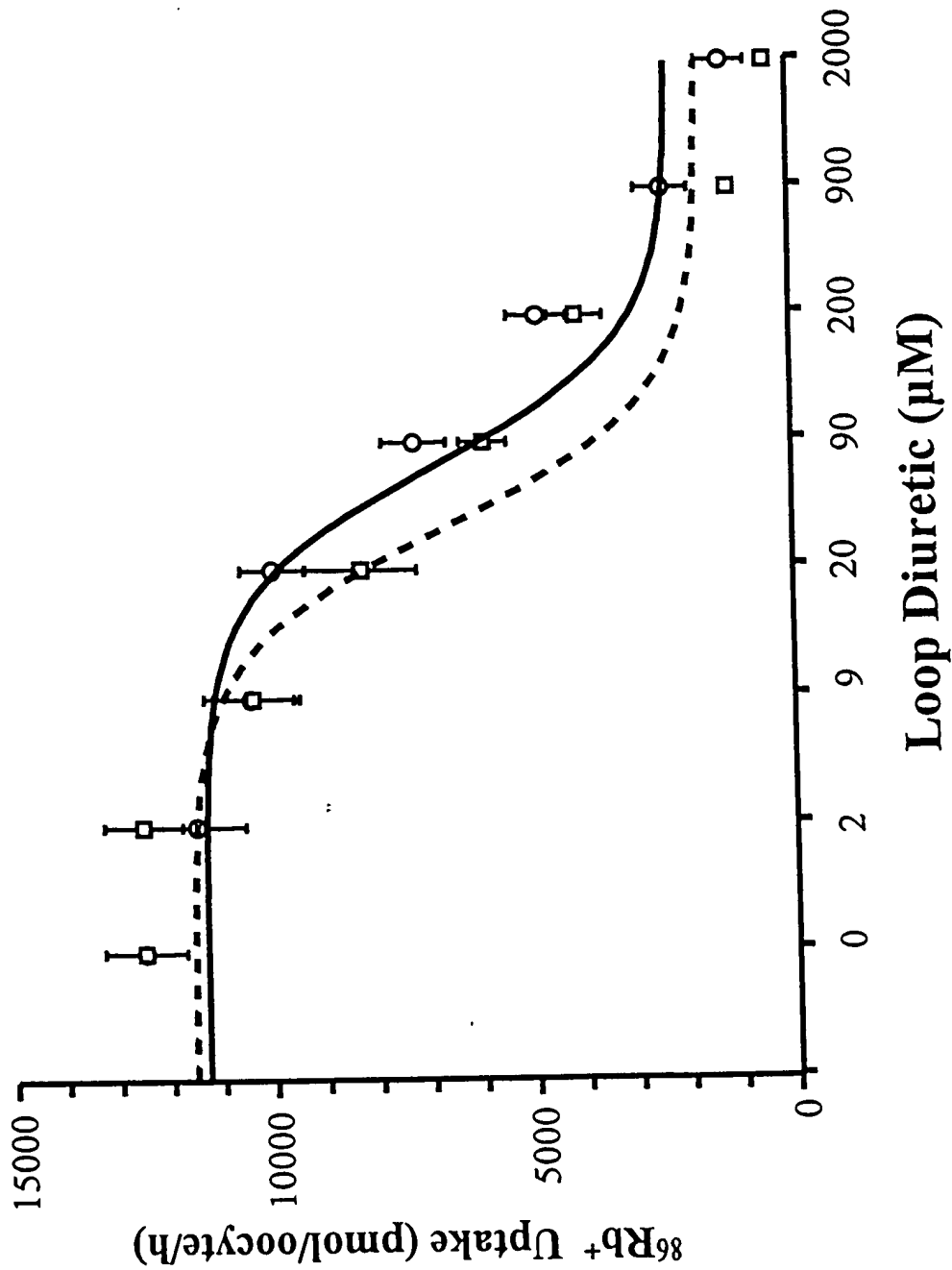


FIG. 16

2040E0" 9265E860

COPY

Control - Cl⁻ 2 mM Furosemide

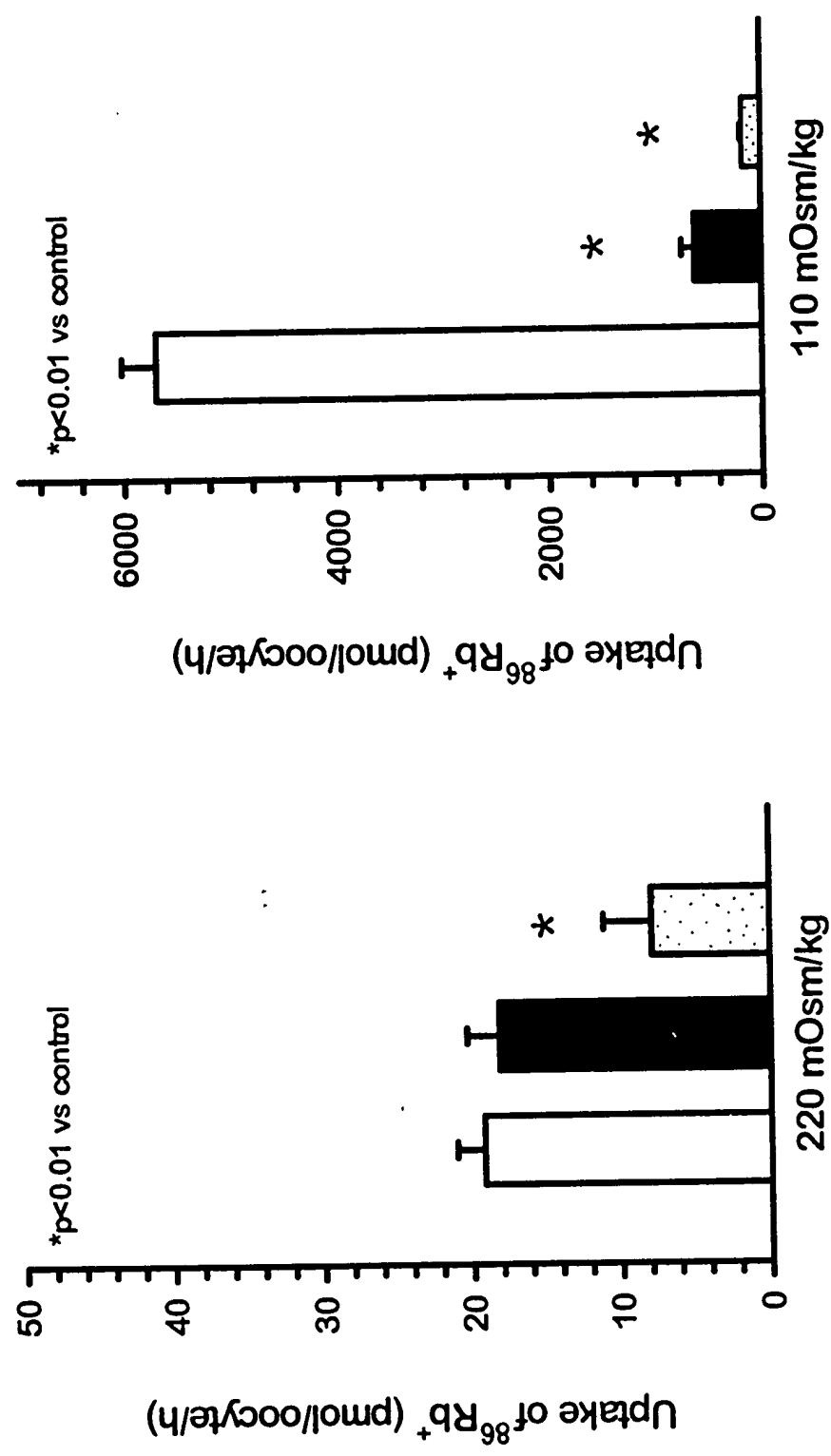


FIG. 17

DIDS (100 μ M)

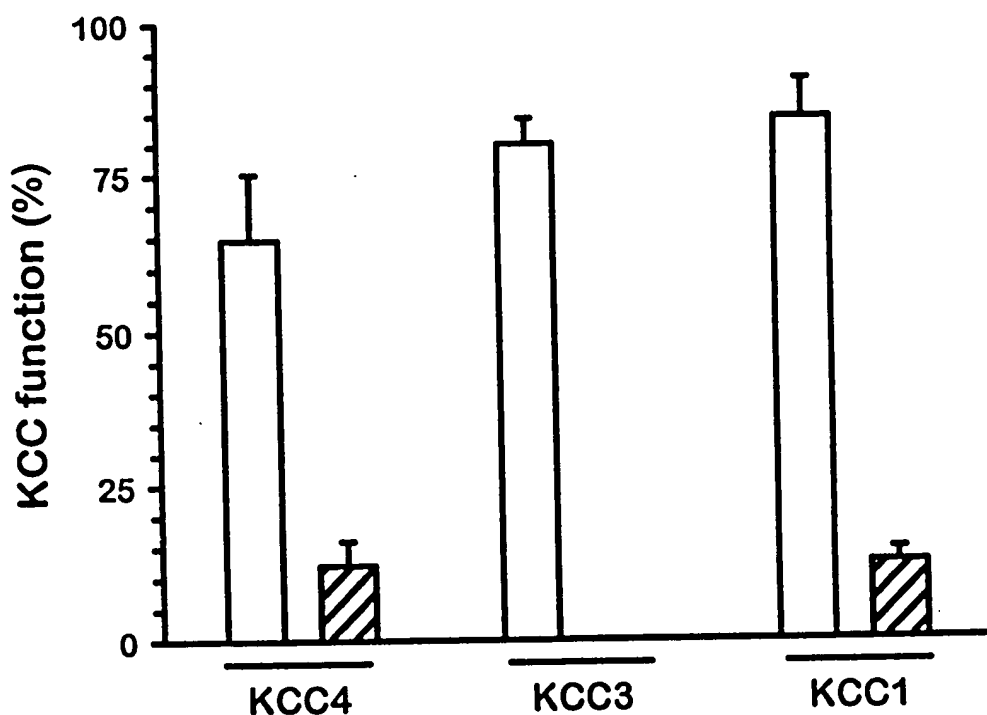


FIG. 18A

DIOA (100 μ M)

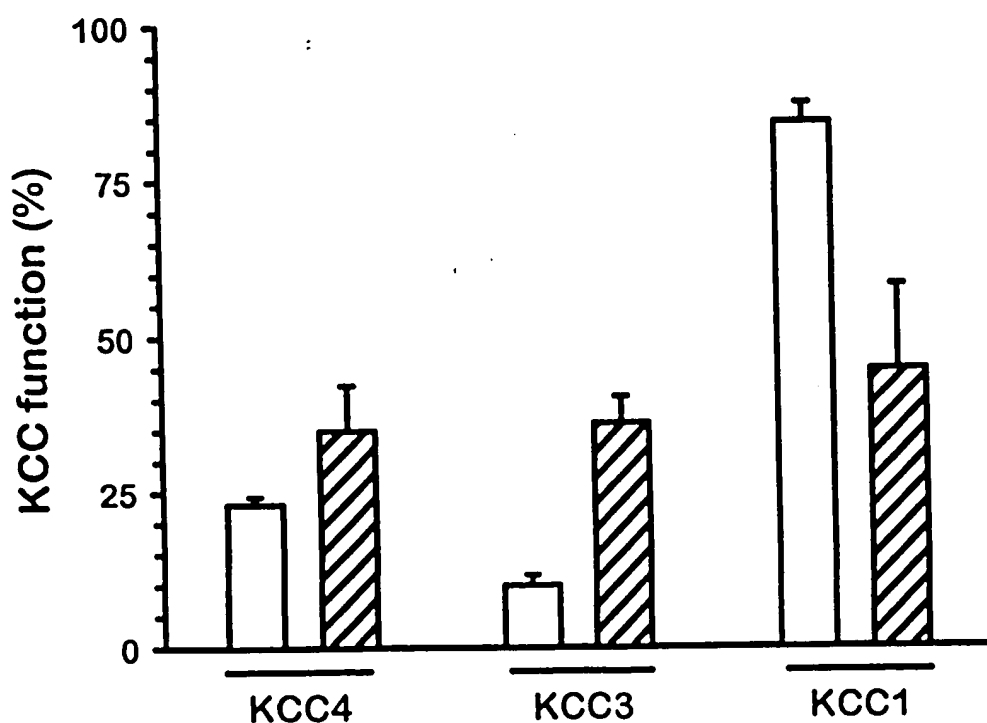


FIG. 18B

204080" 9/26/98 860

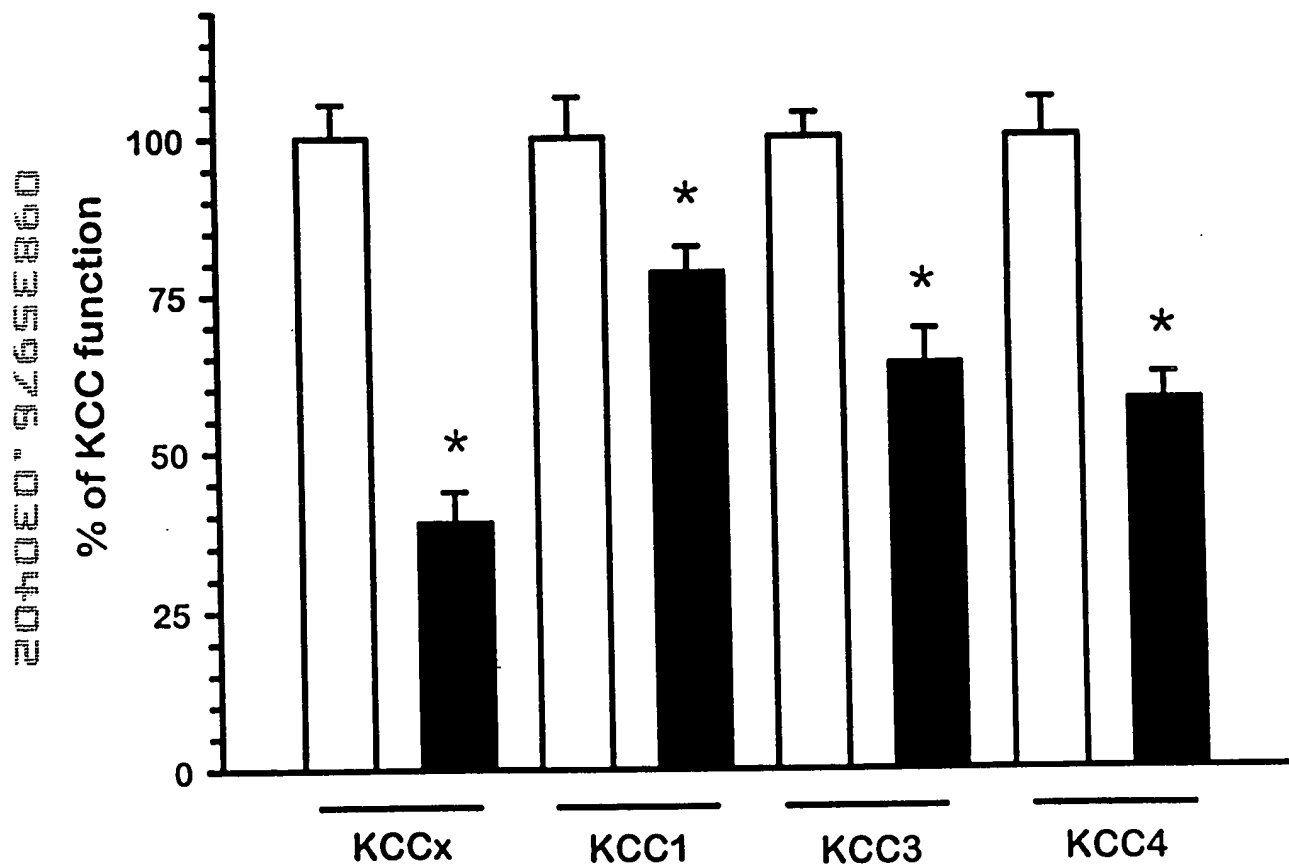


FIG. 19

COPY

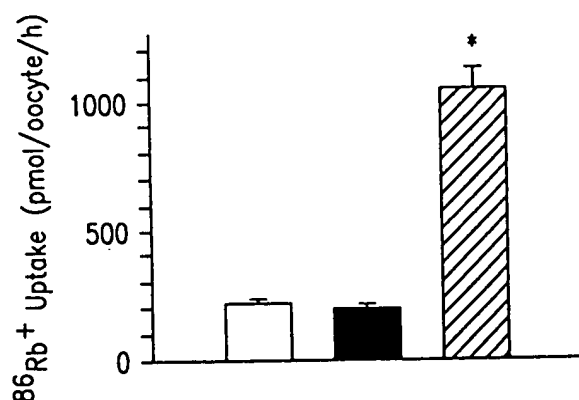


FIG. 20A

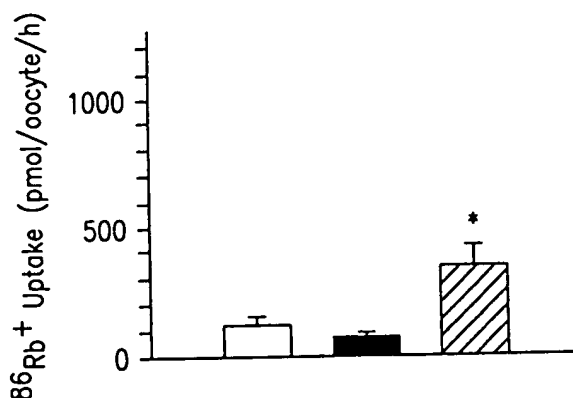


FIG. 20B

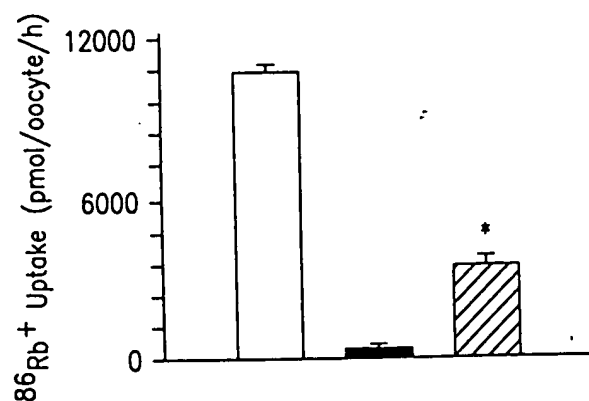


FIG. 20C

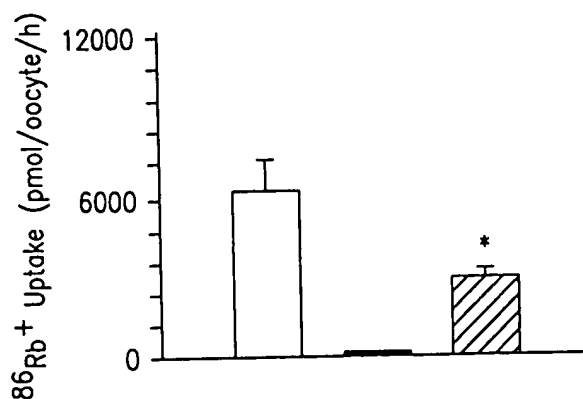


FIG. 20D

204000-92652360

COPY

2040E0" 9265E860

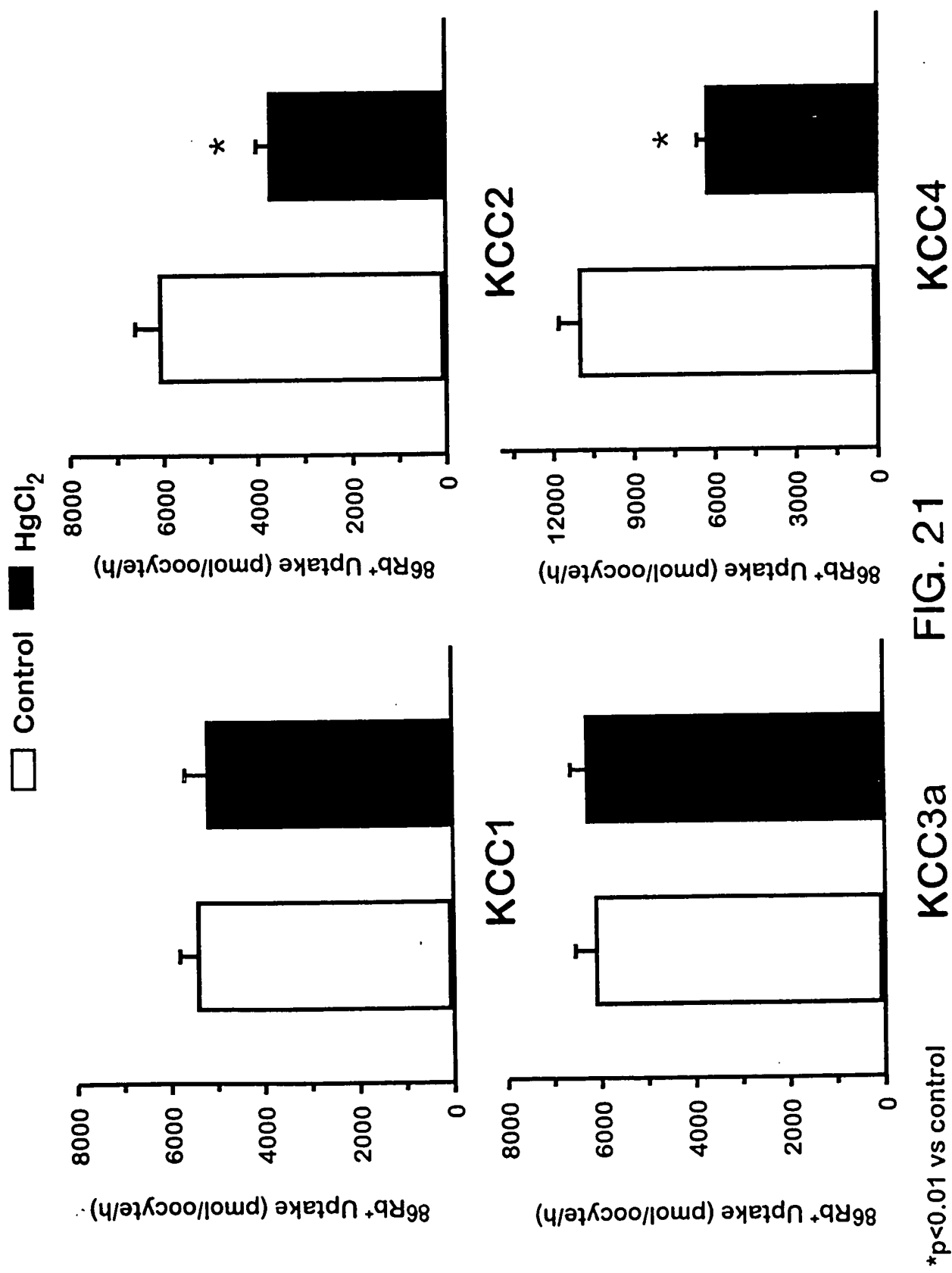
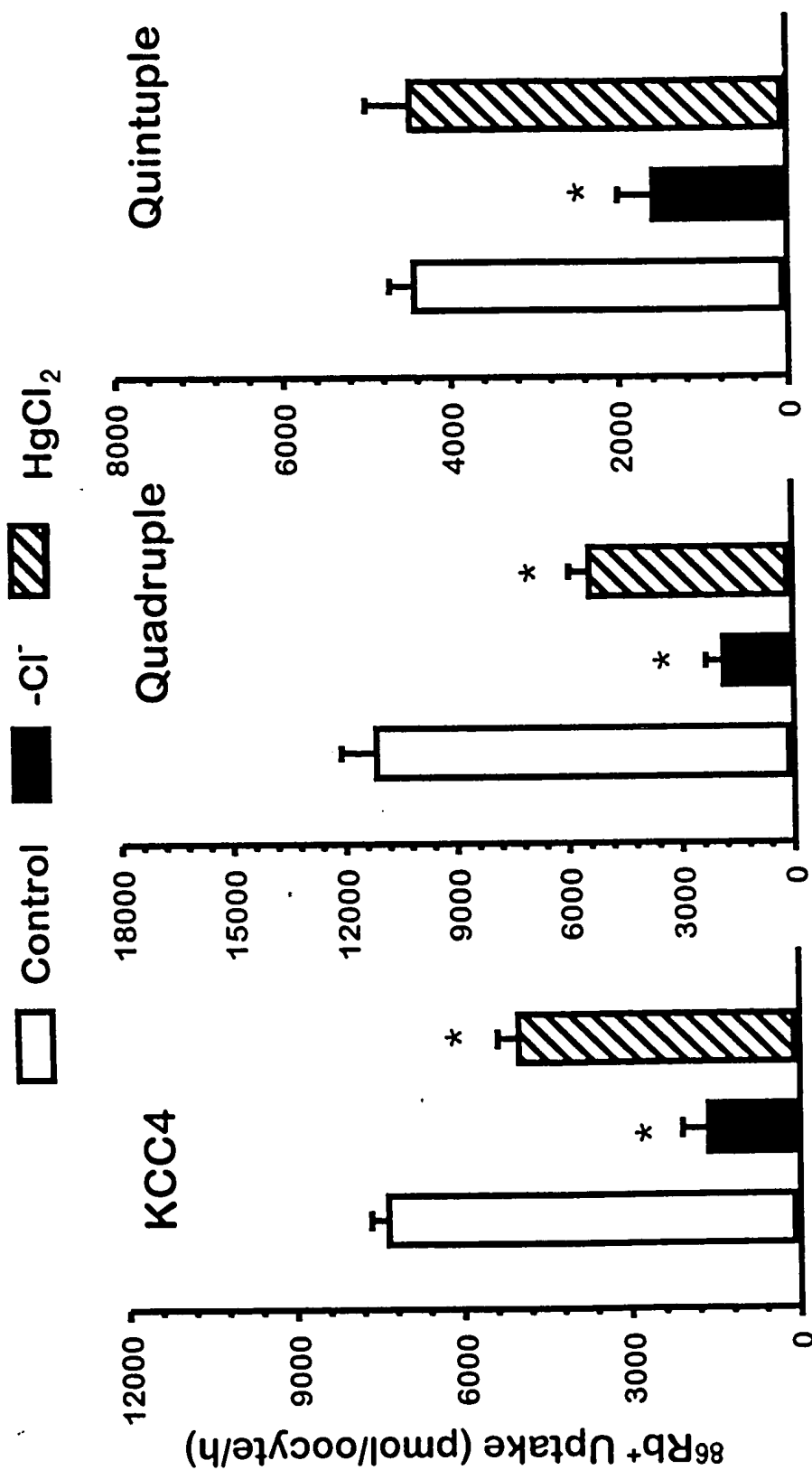


FIG. 21

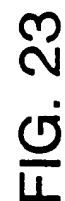
2040E0" 9265E860

COPY



* $p < 0.01$ vs control

FIG. 22



COPY

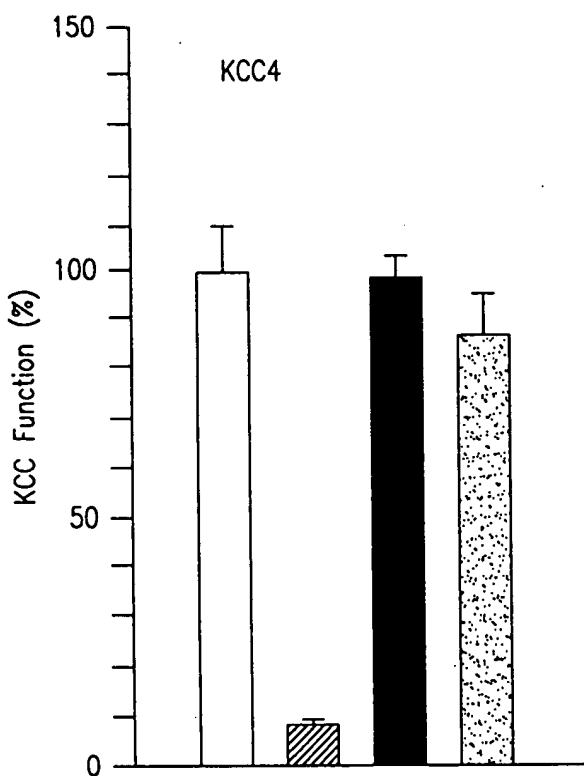


FIG. 24A

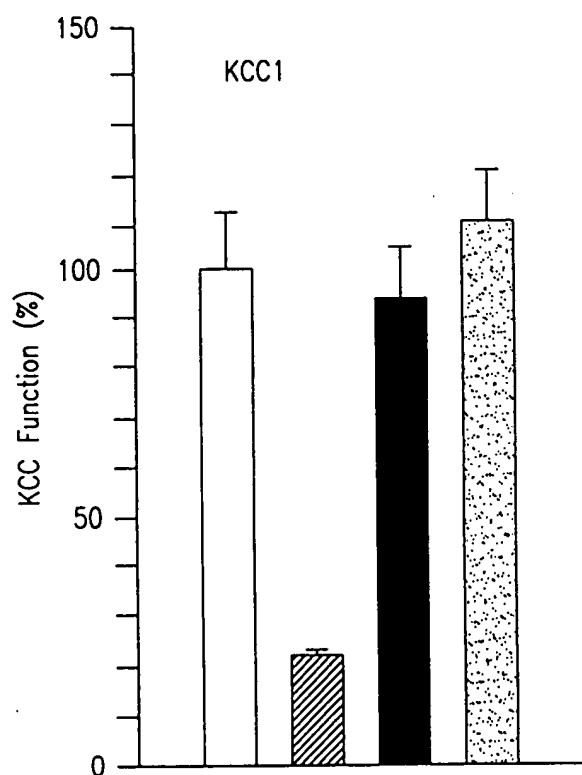


FIG. 24B

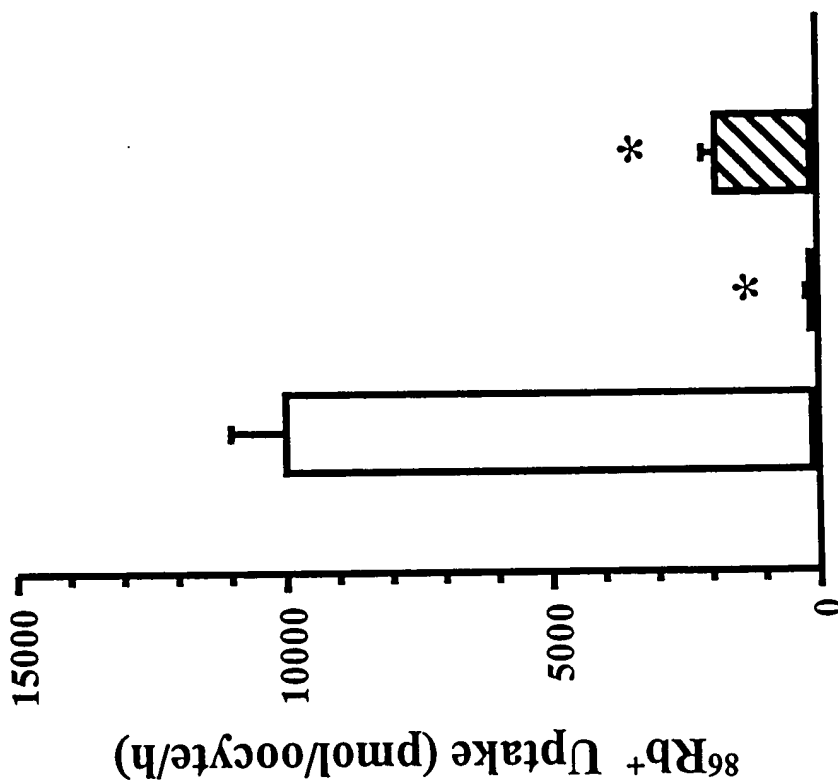


FIG. 25B

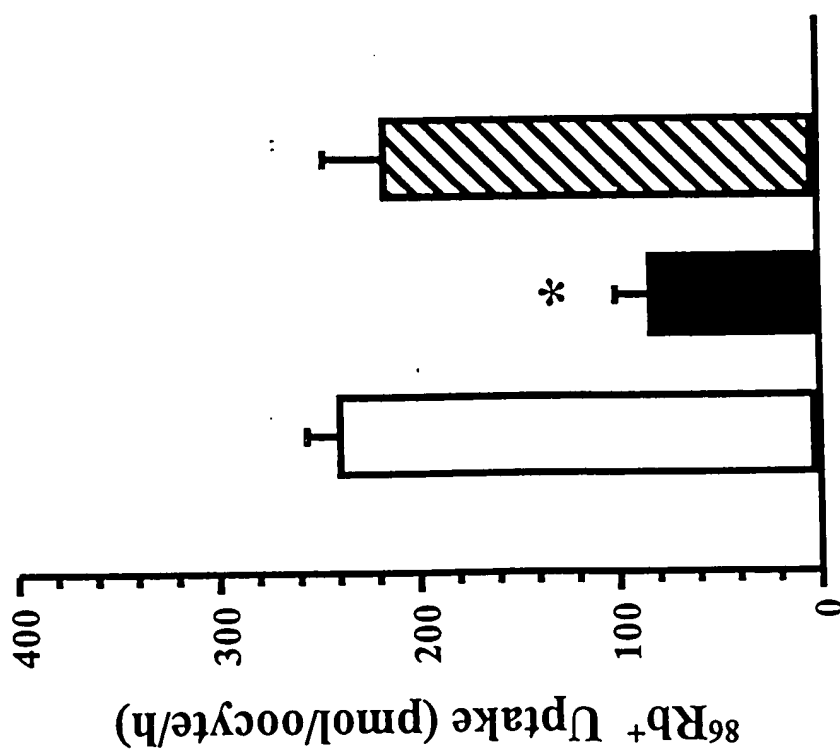


FIG. 25A

204020" 92658860

2040E0" 9265E860

COPY

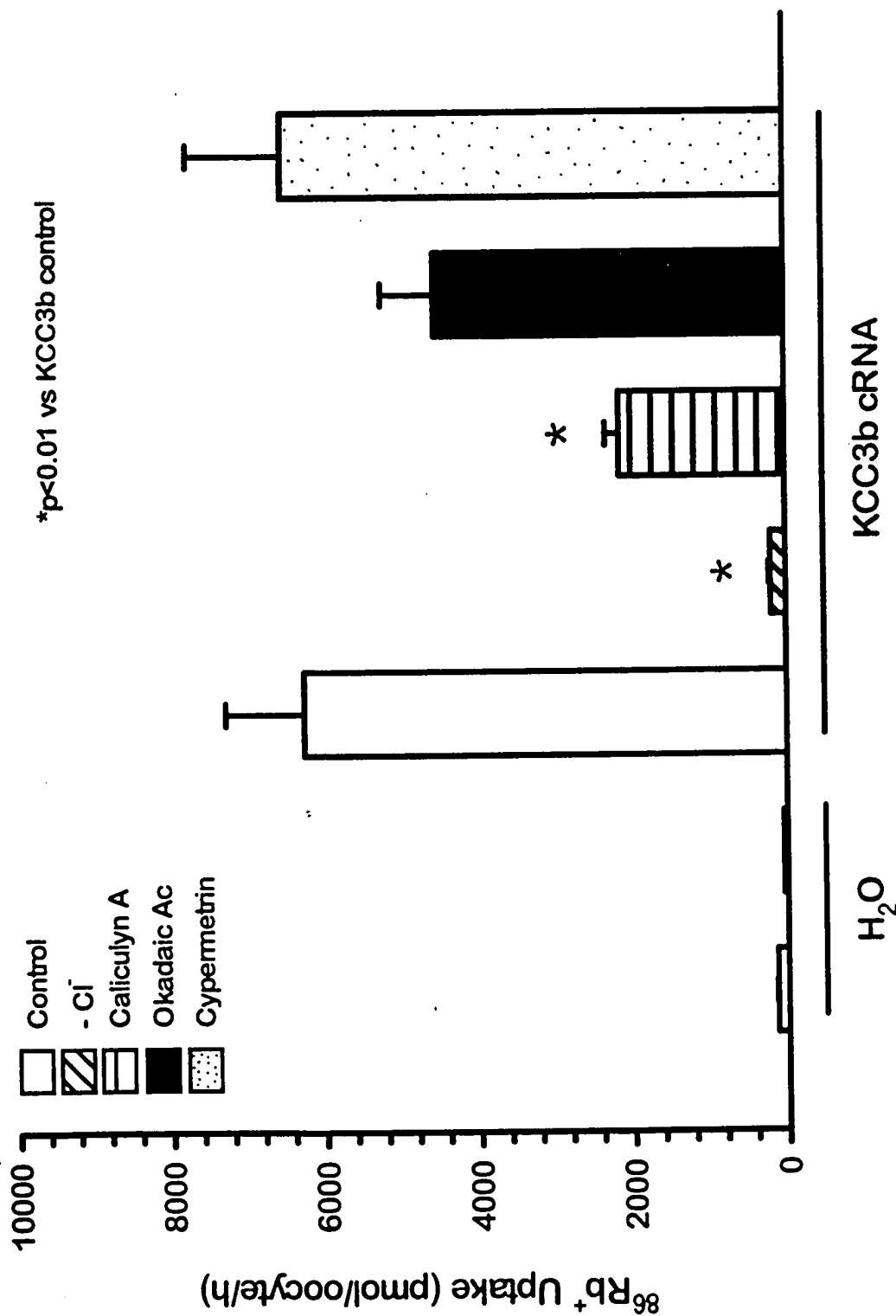


FIG. 26

KCC2/NT2-N

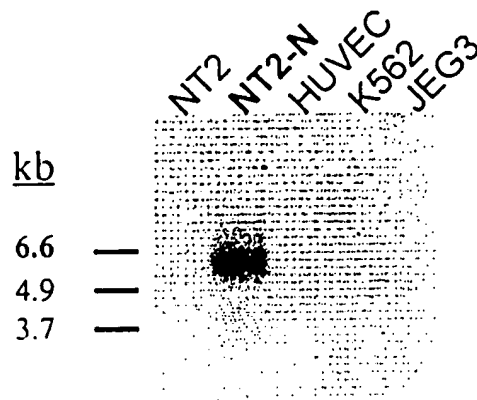


FIG. 27A

Mouse KCC3

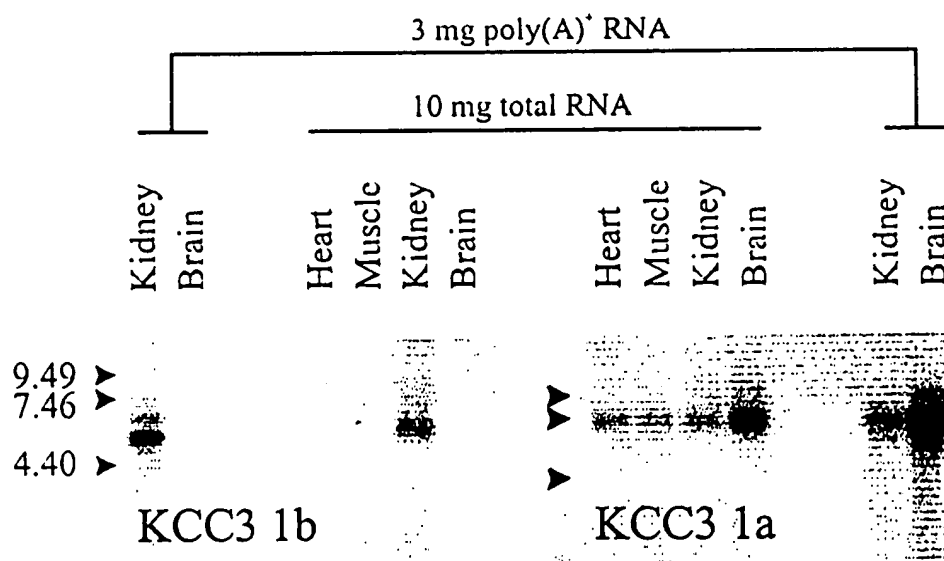


FIG. 27B

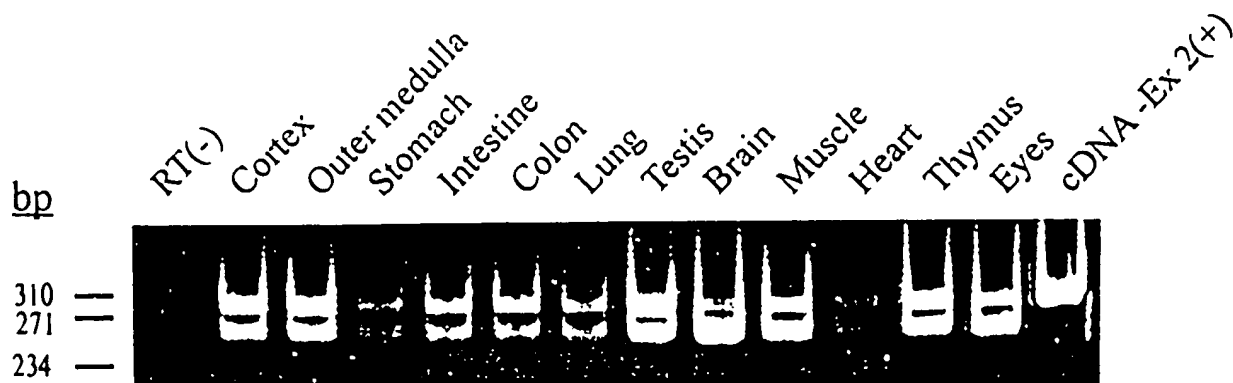


FIG. 27C

09835976.030402

COPY

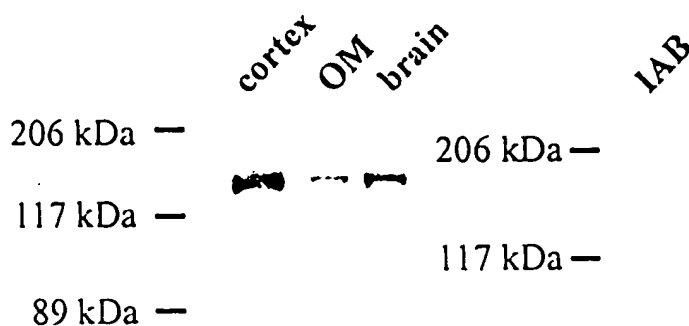


FIG. 27D

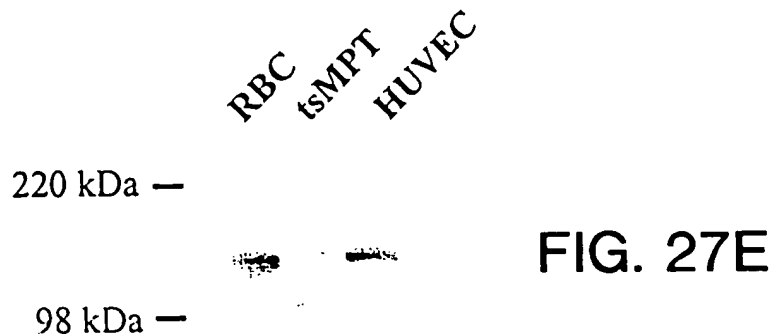


FIG. 27E

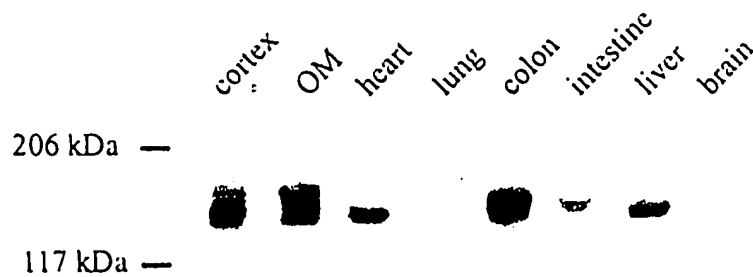


FIG. 27F

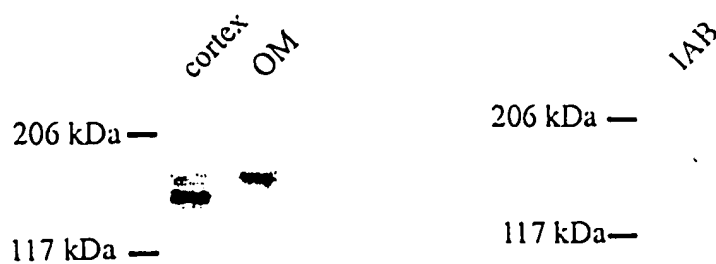


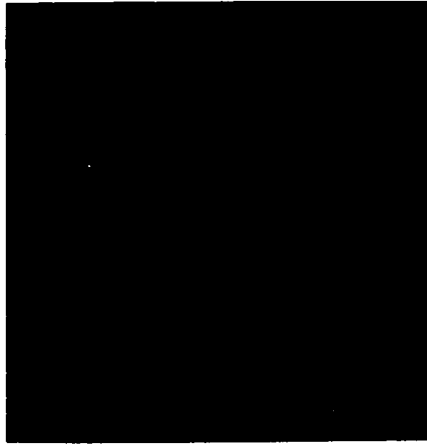
FIG. 27G

FIG. 27H

09835976.030402

COPY

2040E0" 9265E860



-/-

+/+

FIG. 27J

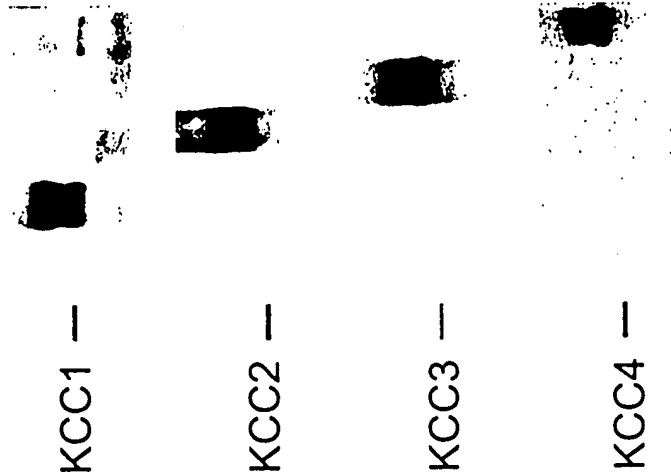


FIG. 27I

COPY

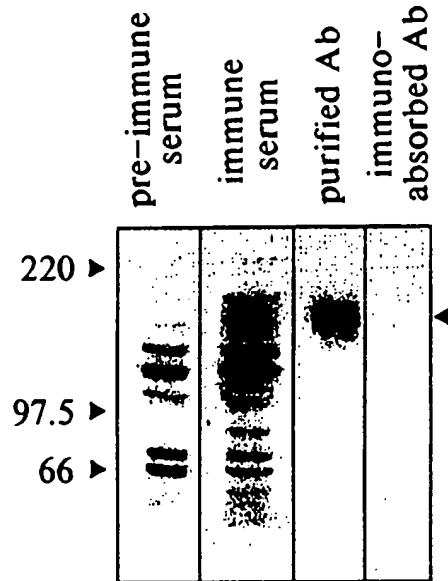


FIG. 28

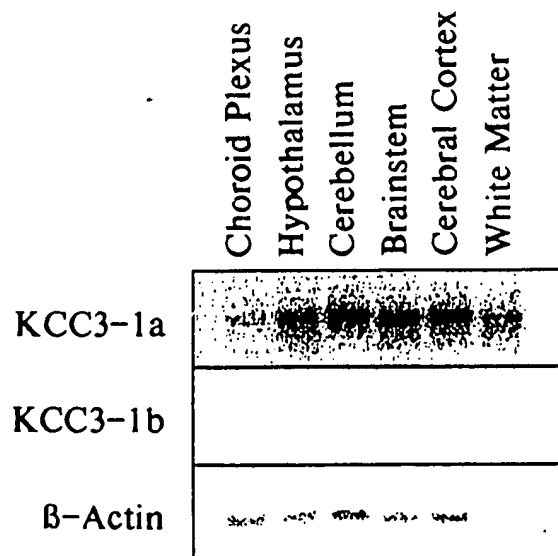


FIG. 29

2040E0" 9265E860

COPY

FIG. 30A

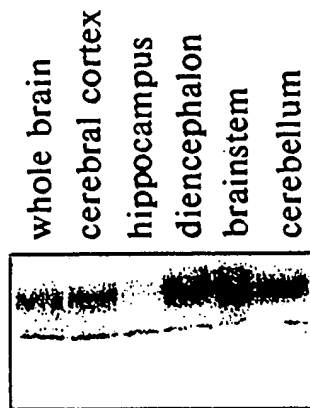


FIG. 30B

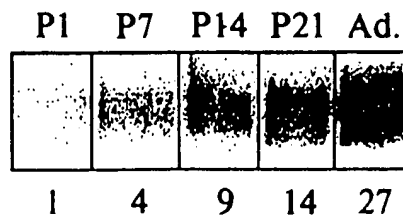
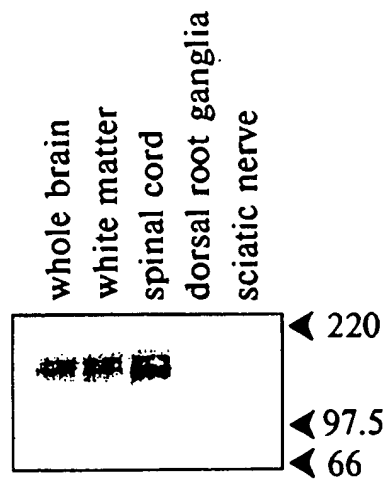


FIG. 30C

204000" 9465E860

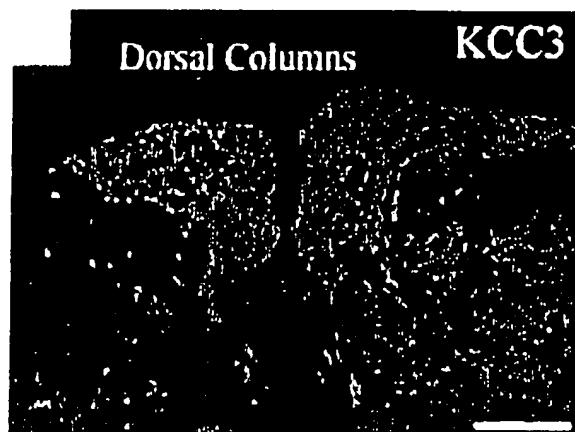


FIG. 31A

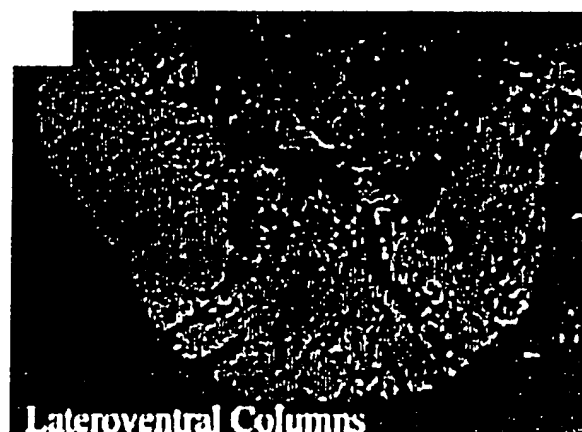


FIG. 31D



FIG. 31B



FIG. 31E

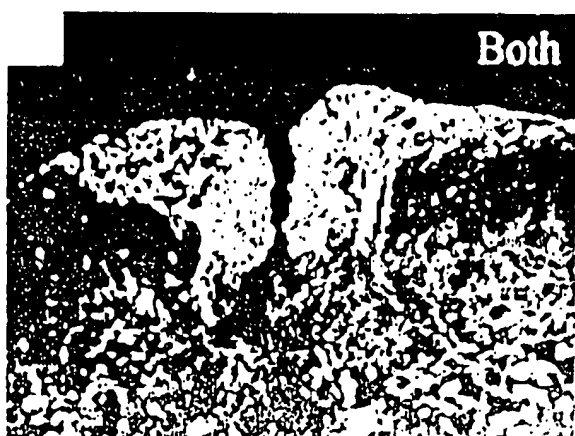


FIG. 31C

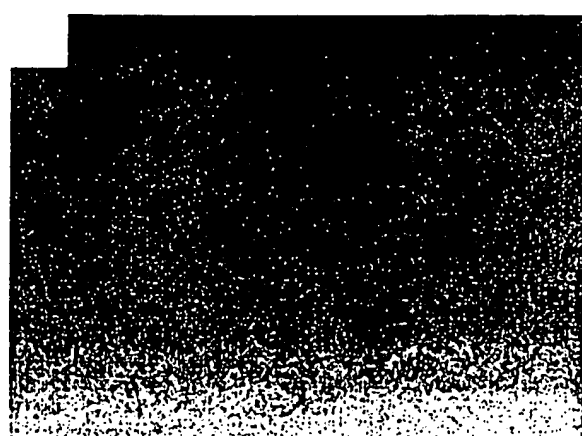


FIG. 31F

2040E09765E860

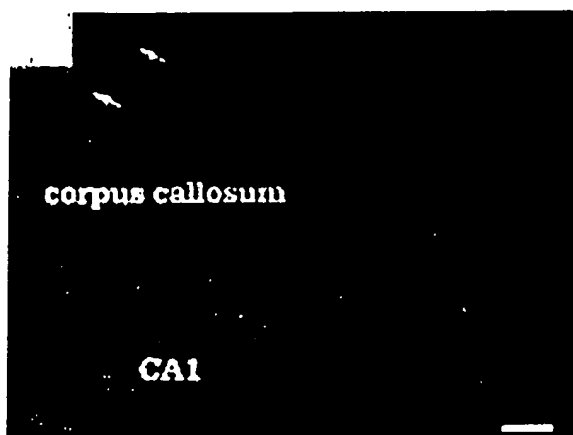


FIG. 32A

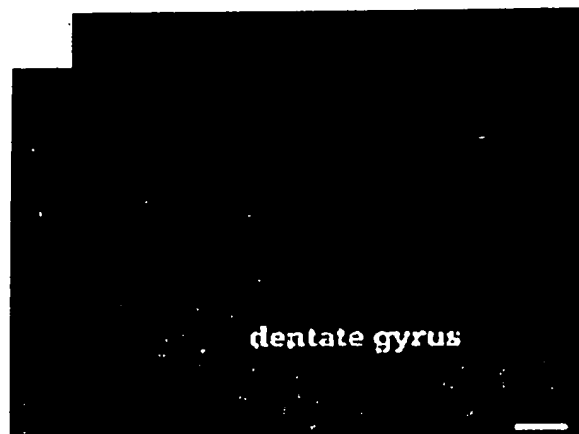


FIG. 32D

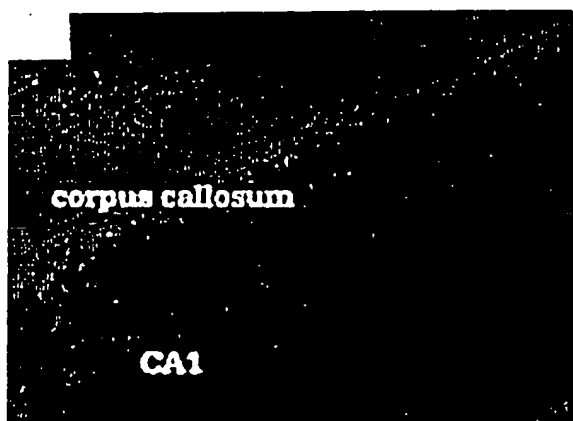


FIG. 32B



FIG. 32E

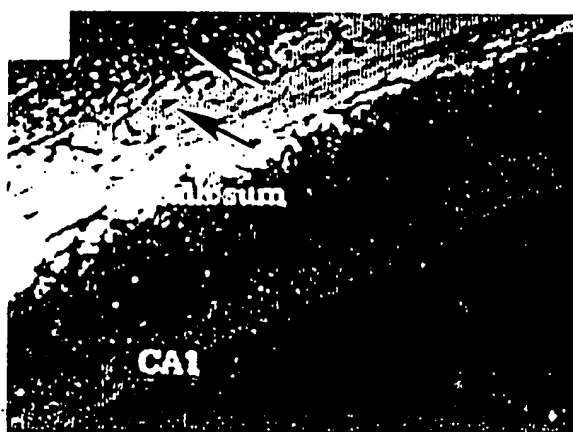


FIG. 32C

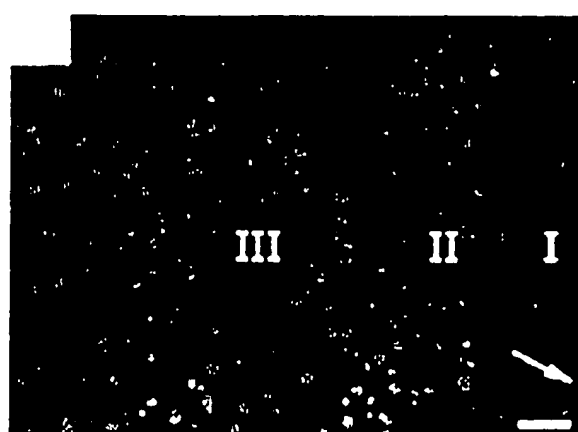


FIG. 32F

09835976-030402

COPY

Targeting strategy

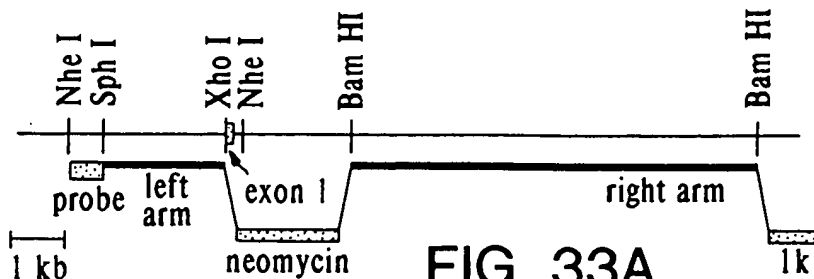


FIG. 33A

Southern

5' probe

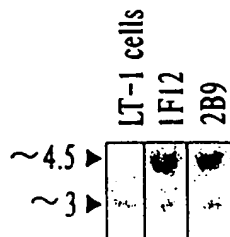


FIG. 33B

PCR

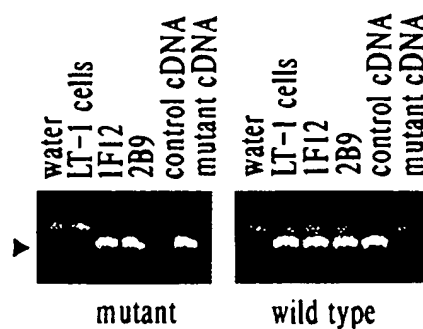


FIG. 33C

Life expectancy

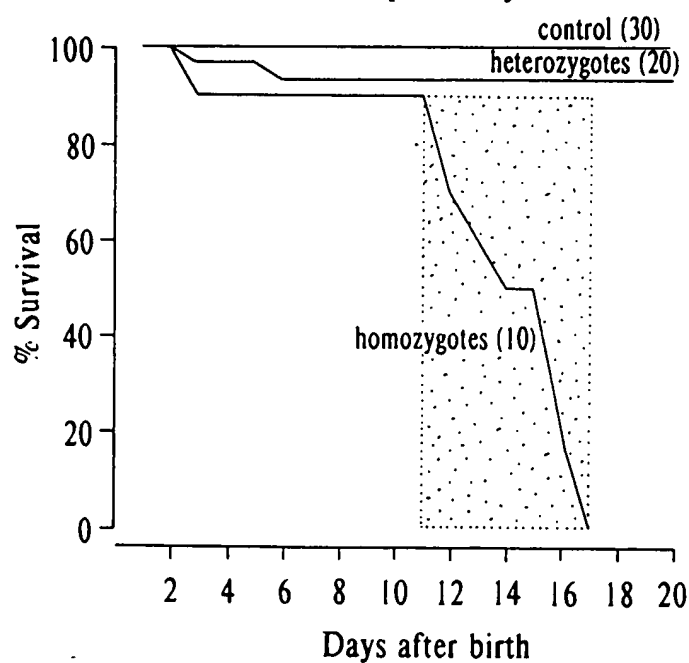


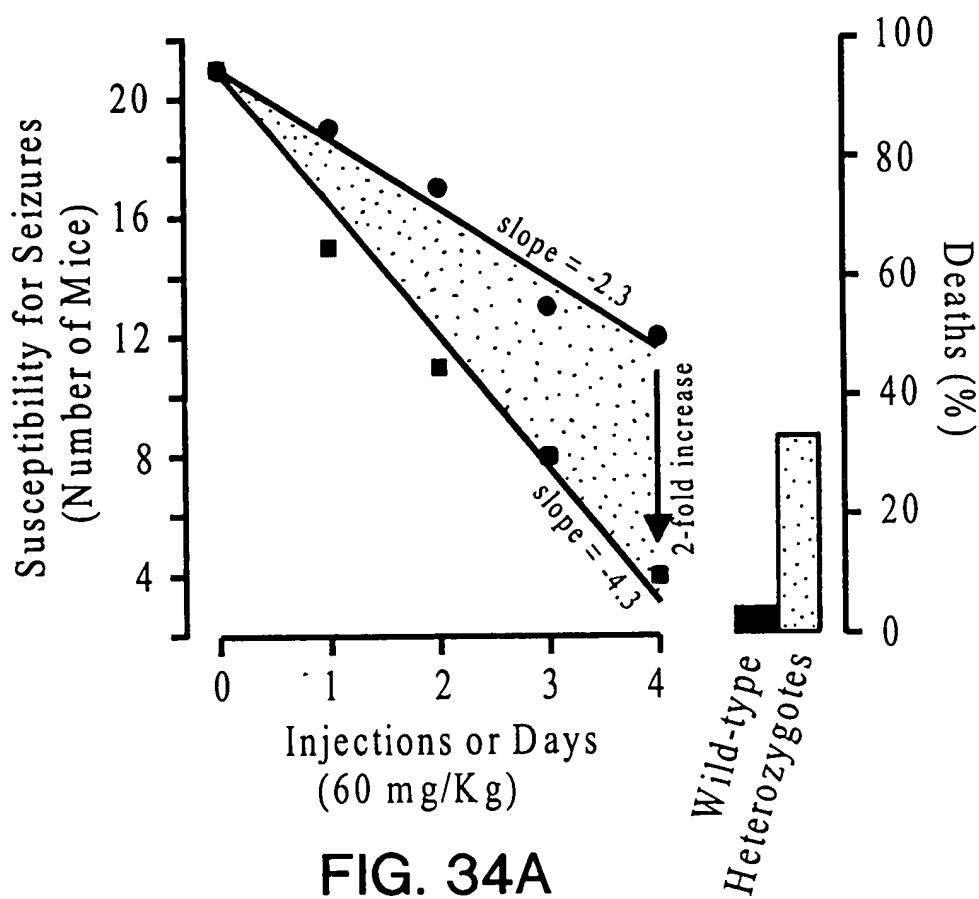
FIG. 33D

Seizure disorder



FIG. 33E

COPY



COPY

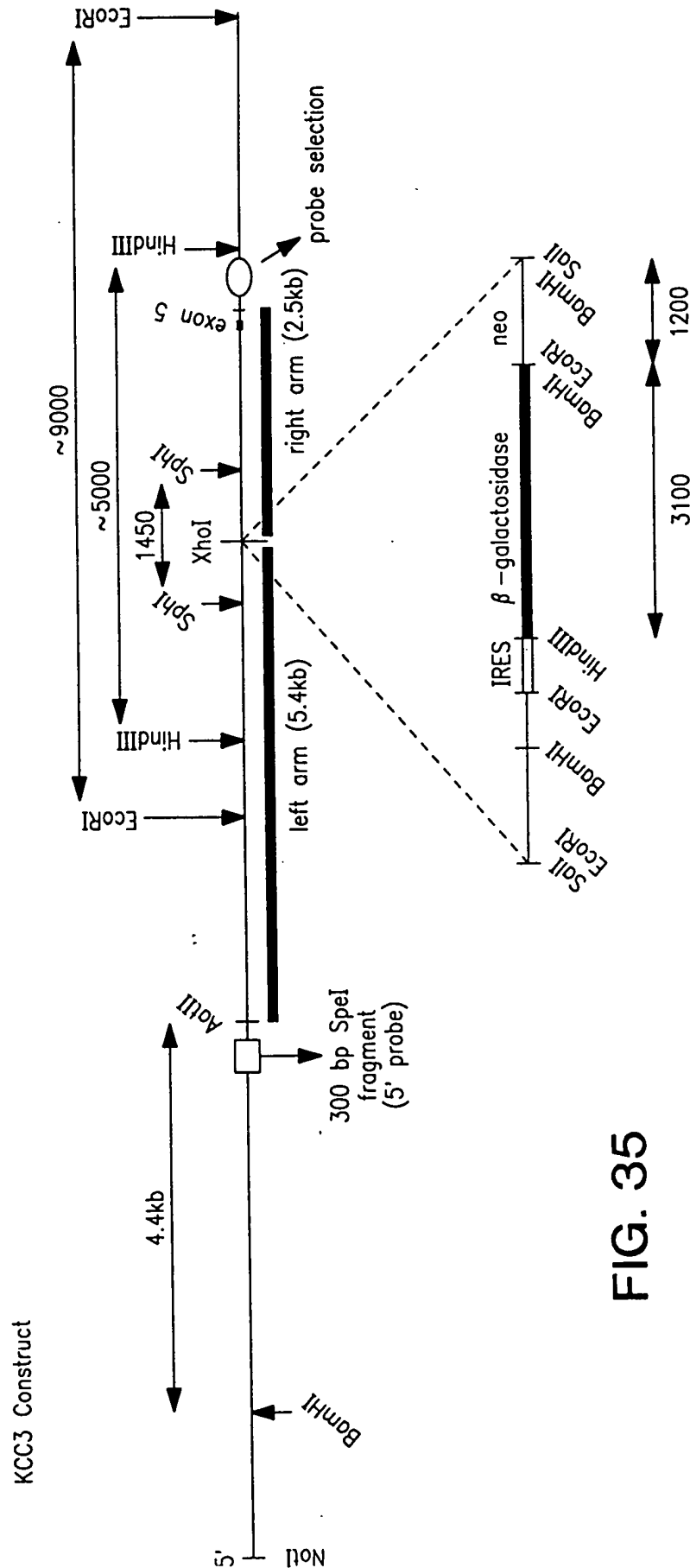


FIG. 35

2010E0" 9265E1360

COPY

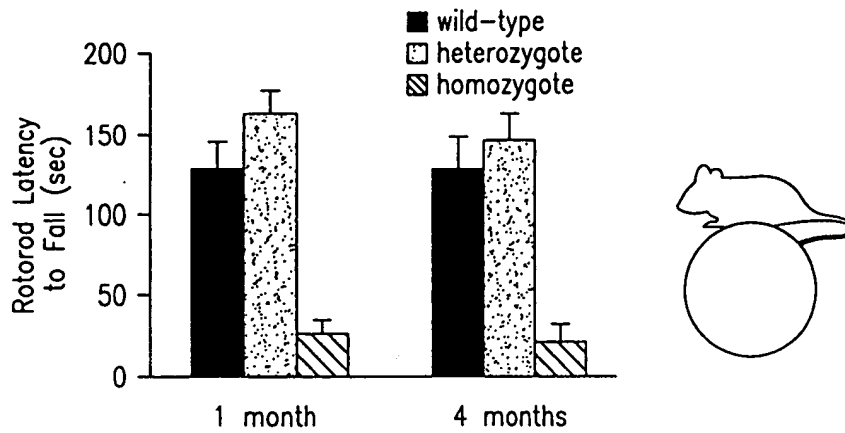


FIG. 36A

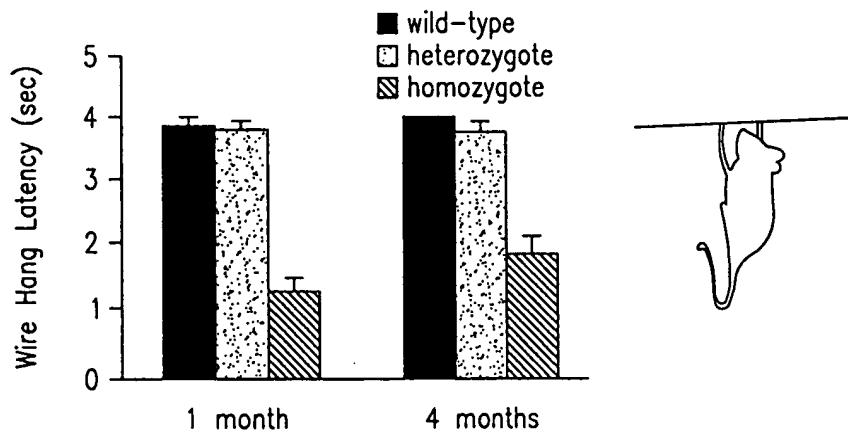


FIG. 36B

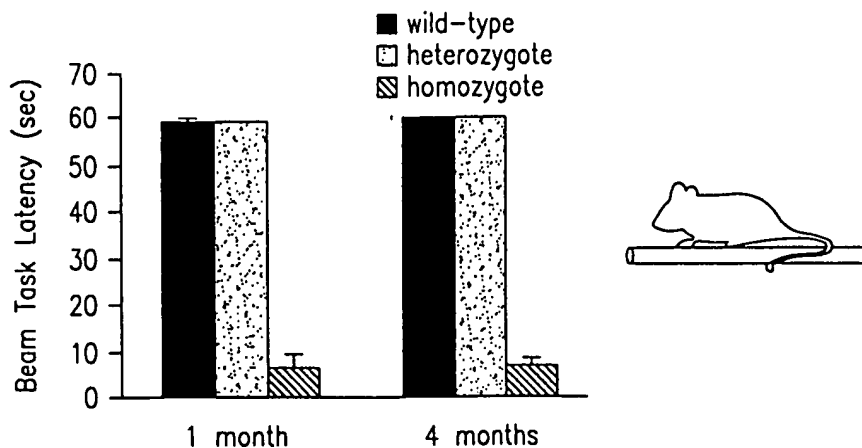


FIG. 36C

2040E0" 9265E860

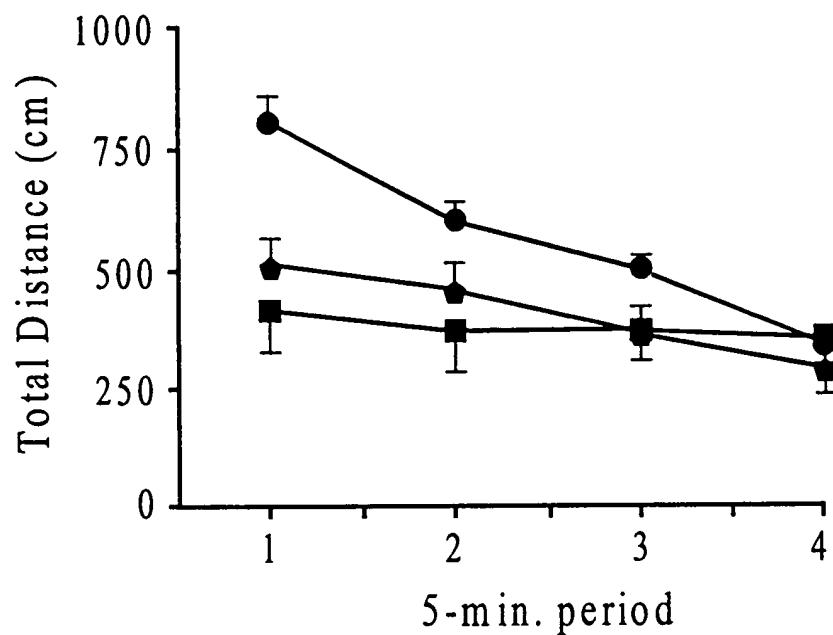


FIG. 37A

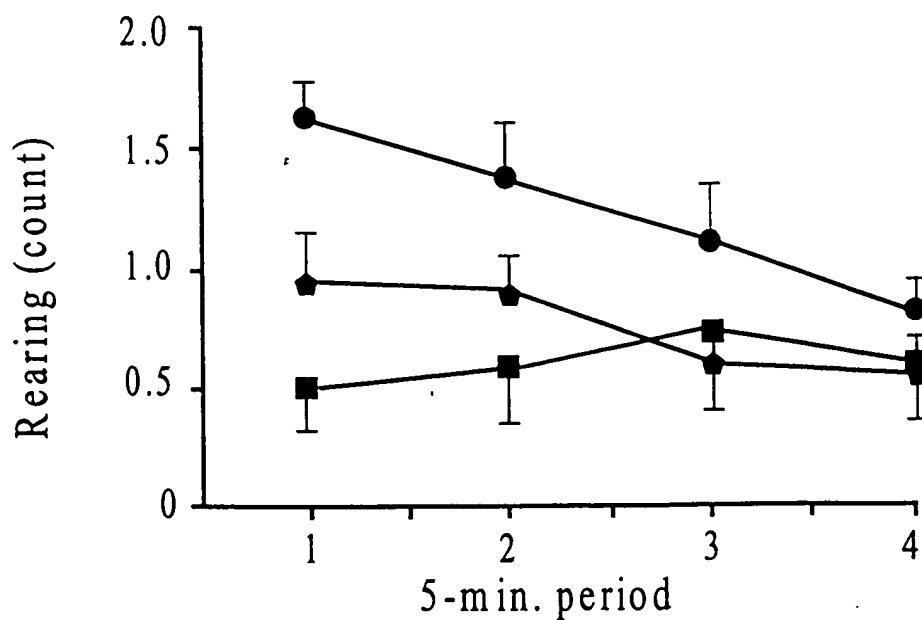


FIG. 37B

COPY

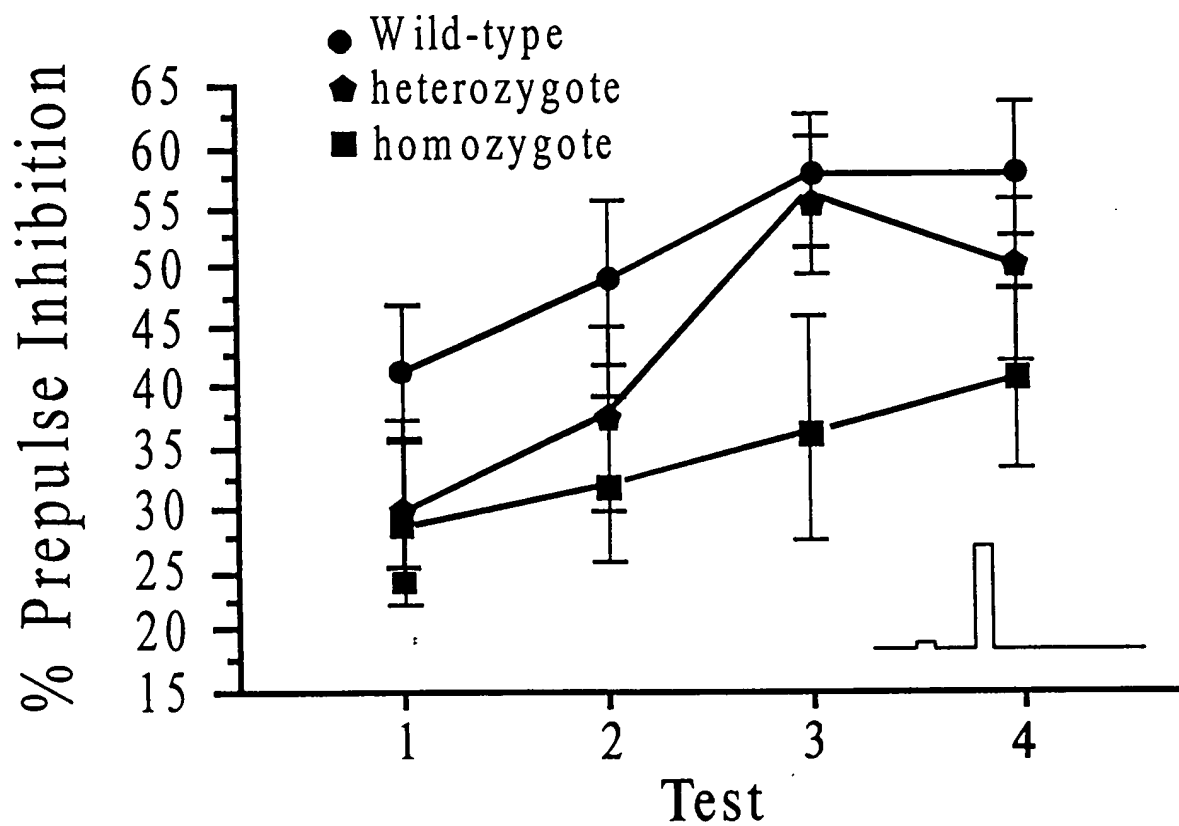


FIG. 38



FIG. 39A

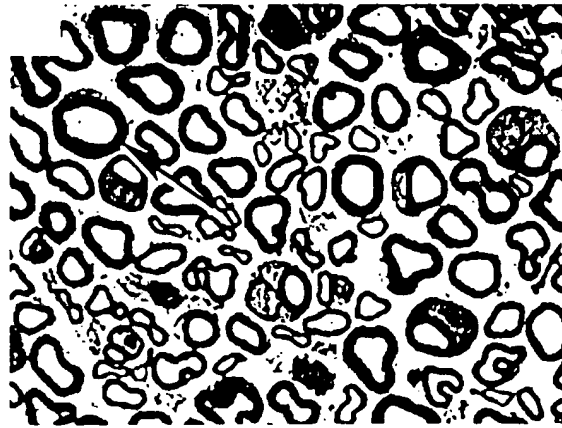


FIG. 39B



FIG. 39C



FIG. 39D

09835976-030402

204020" 9265E860

Title: Purified and Isolated Potassium-Chloride Cotransporter
Nucleic Acids and Polypeptides and Therapeutic and
Diagnostic Methods Using Same
Applicant: Mount et al.
Serial No.: 09/835,976

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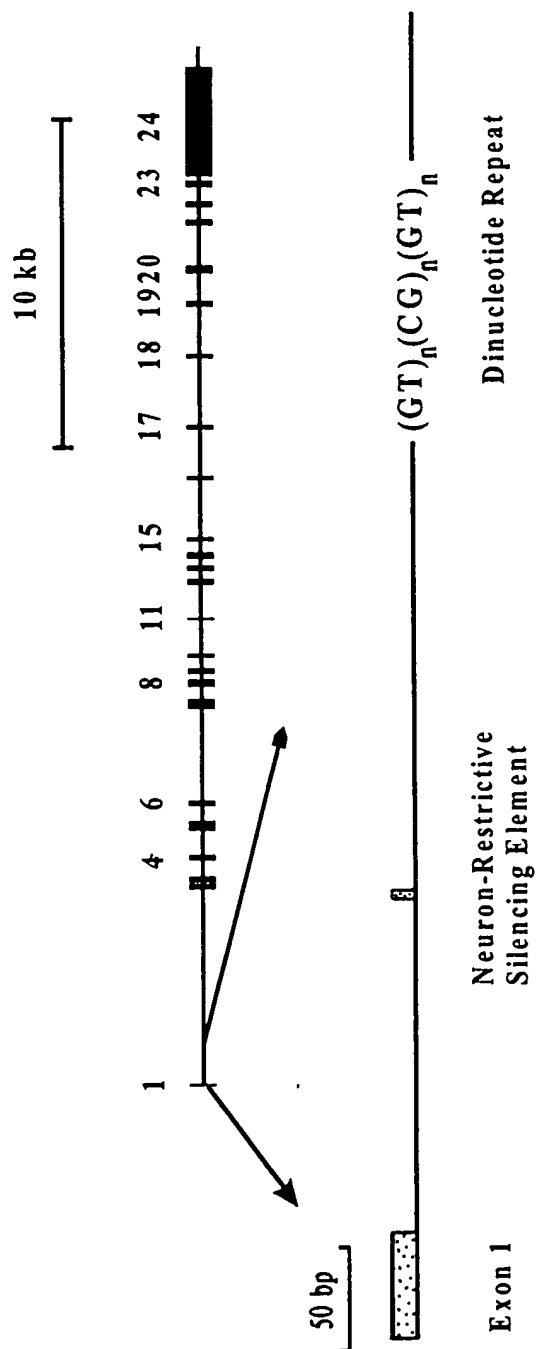


FIG. 40

Sequence of the hKCC2 dinucleotide repeat in several individuals:

Sample 1:

Allele A (GT)₁₈ (GC)₇ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 84

Allele B (GT)₁₆ (GC)₅ (AT)₁ (GT)₅ (GC)₁ (GT)₉ / Total = 74

Sample 2:

Allele A (GT)₁₈ (GC)₄ (AT)₂ (GT)₄ (GC)₂ (GT)₁₁ / Total = 82

Sample 3:

Allele A (GT)₁₆ (GC)₆ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 78

Allele B (GT)₁₄ (GC)₅ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 72

Sample 4:

Allele A (GT)₁₉ (GC)₆ (AT)₂ (GT)₄ (GC)₂ (GT)₁₀ / Total = 86

Allele B (GT)₁₇ (GC)₇ (AT)₂ (GT)₄ (GC)₂ (GT)₁₀ / Total = 84

Sample 5:

Allele A (GT)₁₇ (GC)₆ (AT)₂ (GT)₄ (GC)₁ (GT)₁₀ / Total = 80

Allele B (GT)₁₆ (GC)₆ (AT)₂ (GT)₃ (GC)₂ (GT)₁₀ / Total = 78

Sample 6:

Allele A (GT)₁₅ (GC)₆ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 76

Allele B (GT)₁₆ (GC)₅ (GT)₁ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 78

Sample 7:

Allele A (GT)₁₆ (GC)₄ (GT)₁ (AT)₁ (GT)₅ (GC)₁ (GT)₁₀ / Total = 76

FIG. 41

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